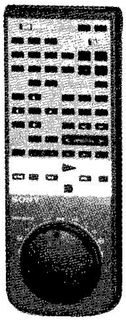
59

SLV-575UC/676UC

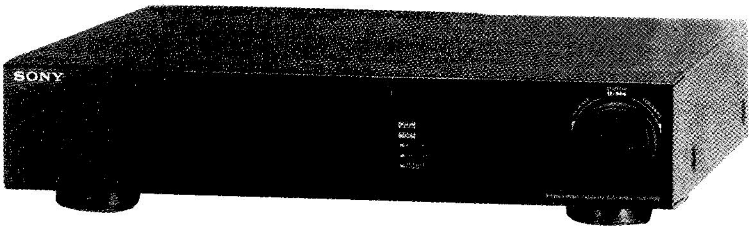
RMT-V575A RMT-V676A

SERVICE MANUAL

US Model
Canadian Model



This photo is RMT-V676A



This photo is SLV-676UC

- **Refer to the SERVICE MANUAL of VHS MECHANICAL ADJUSTMENTS II for MECHANICAL ADJUSTMENTS. (9-972-816-11)**

SPECIFICATIONS

System

Video recording system	Rotary two-head helical scanning FM system
Audio recording system	Rotary two-head hi-fi system (Recording on the conventional audio track is monaural)
Video signal	EIA standard, NTSC color
Tape speed	SP: 33.35mm/sec. (1 1/4 inches/sec.) EP: 11.11mm/sec. (3/8 inch/sec.) LP: 22.22mm/sec. (7/8 inch/sec.) (playback only)
Maximum recording/playback time	8 hours (EP) (T-160)
Fast-forward and rewind time	Approx. 4 min. (T-120)
HIGH SPEED REWIND time	Approx. 2 min. 30 sec. (T-120)
Audio frequency response	20Hz — 20kHz
Dynamic range	More than 90 dB
Wow and flutter	Less than 0.005%

Tuner section

Tuner system (audio)	Split inter carrier system
Channel coverage	VHF channels 2 to 13 UHF channels 14 to 69 CATV channels A-8 to A-1 A to W, W+1 to W+84
Antenna	75 ohm antenna terminal for VHF/UHF

INPUT and OUTPUT

LINE IN 1 and 2	VIDEO IN (phono jack) (1 each) input signal: 1Vp-p, 75ohms, unbalanced, sync negative AUDIO IN (phono jack) (2 each) Input level: −7.5dBs (0dBs= 0.775 Vrms) Input impedance: more than 47 kilohms
LINE OUT	VIDEO OUT (phono jack) (1) Output signal: 1Vp-p, 75ohms, unbalanced, sync negative AUDIO OUT (phono jack) (2) Standard output: −7.5dBs at load impedance 47 kilohms Output impedance: less than 10 kilohms
MONITOR OUT	VIDEO OUT (phono jack) (1) Output signal: 1Vp-p, 75ohms, unbalanced, sync negative AUDIO OUT (phono jack) (2) Standard output: −7.5 dBs at load impedance 47 kilohms Output impedance: less than 10 kilohms
CONTROL S IN	Minijack (1)
CONTROL S OUT	Minijack (1) (SLV-676UC)
CONTROL L	5-pin DIN connector (SLV-676UC)

— continued on next page —

VHS VIDEO CASSETTE RECORDER

SONY®

MICROFILM

HEADPHONES Jack	Stereo minijack (1) Output impedance: more than 8 ohms Output level: 45 mW at load impedance 8 ohms

Timer section

Clock	Quartz locked
Time indication	12-hour cycle
Timer setting	Only for recording 8 programs over one month at max.
Power back up	Built-in self-charging battery Back-up duration: Up to 3 hours at one time

General

Power requirements	120V AC, 60Hz
Power consumption	32W
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	−20°C to 60°C (−4°F to 140°F)
Dimensions	430×96.5×367.5mm (w/h/d) (17×37/8×14 1/2inches)
Weight	Approx. 6.5kg (14 lbs 5 oz)

Wireless Commander RMT-V575A (SLV-575UC)

Remote control system	Infrared control
Command mode	VTR1/VTR2/VTR3 selectable
Power requirements	3V DC, 2 size AA batteries (IEC designation R6)
Dimensions	72×20×200 mm (w/h/d) (2 7/8×13/16×7 7/8inches)
Weight	120g (4.2oz) (excluding battery)

Wireless Commander RMT-V676A (SLV-676UC)

Remote control system	Infrared control
Command mode	VTR1/VTR2/VTR3 selectable
Power requirements	3V DC, 2 size AA batteries (IEC designation R6)
Dimensions	75×36×198 mm (w/h/d) (3×1 7/16×7 7/8inches)
Weight	200g (7.1oz)

Accessories supplied

Wireless commander RMT-V575A with two size AA batteries (IEC designation R6) (SLV-575UC)	(1)
Wireless commander RMT-V676A with two size AA batteries (IEC designation R6) (SLV-676UC)	(1)
75-ohm coaxial cable with F-type connectors	(1)
Audio connecting cable (2 phono to 2 phono)	(1)
Video connecting cable (Phono to phono)	(1)
External antenna connector	(1)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
6. Check the B+ voltage to see it is at the values specified.
7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

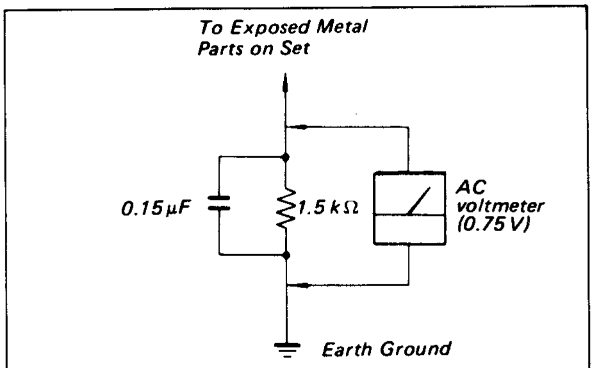


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

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SECTION 1
SERVICE NOTE

1-1. RETURNING THE PINCH ROLLER, GUIDE ROLLER AND ELEVATOR CAM TO A STOP STATE

① Remove the bottom plate.
② The cam motor is on the bottom side of the MD (between the front panel and the MD-49 board). Turn the worm gear Ⓐ on the MD in the direction shown by arrow Ⓑ.

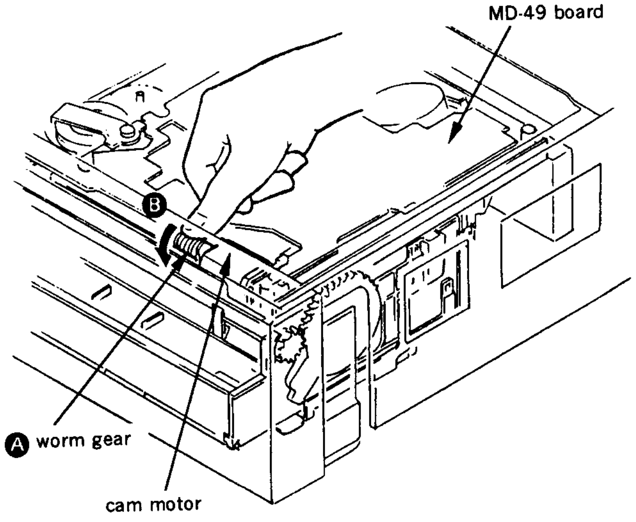

MD-49 board
Ⓑ
Ⓐ worm gear
cam motor

Fig. 1-1

1-3. REMOVING THE CASSETTE WHEN THE EQUIPMENT MALFUNCTIONS WITH A CASSETTE INSERTED

① Remove the upper case.
② Turn the worm gear Ⓐ of the FL cassette compartment motor in the direction shown by arrow Ⓑ.

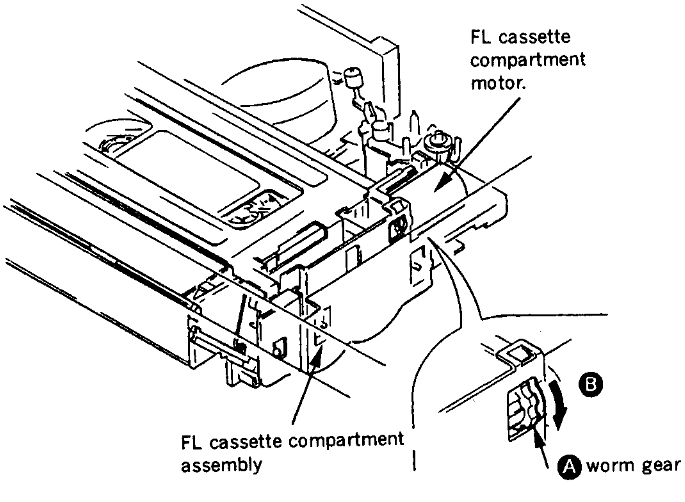

FL cassette compartment motor.
Ⓑ
FL cassette compartment assembly
Ⓐ worm gear

Fig. 1-3

1-2. HOUSING THE TAPE IN THE CASSETTE HALF

Use your finger to turn the flywheel Ⓐ on the capstan motor in the direction of arrow Ⓑ. The tape will be housed in the cassette half.

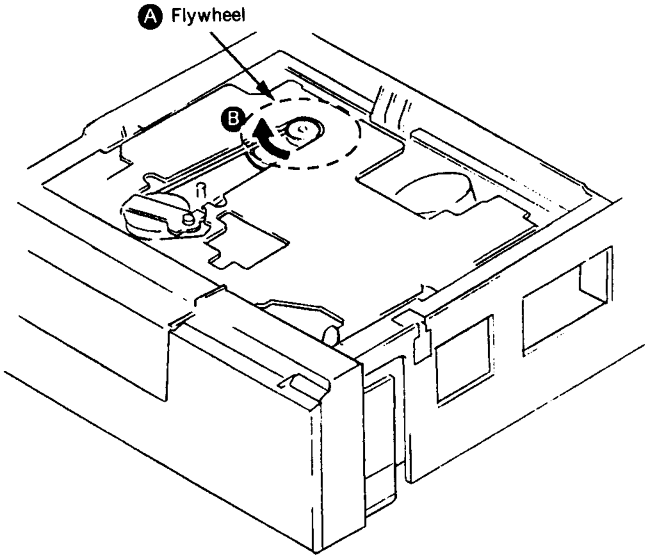


Fig. 1-2

Caution

When carrying out steps 1-1 to 1-3, be careful that the slack in the tape does not catch and that the tape is not damaged.

Replacing The Upper Drum

1-4. REMOVING THE UPPER DRUM

① Refer to Fig. 1-4 to remove the screw ❶ (P3×5) and then remove the axle ground.

② Completely remove the revolving upper drum PC board and the solder at sixteen points as shown by the arrows.

③ Refer to Fig. 1-5 to remove the two screws ❸ (PSW3×8) and remove the revolving upper drum in the direction shown by arrow Ⓐ. If the drum proves difficult to remove, try tilting slightly backward and left and right.

Note : When the drum cannot be removed, check again to ingure that all solder has been removed.

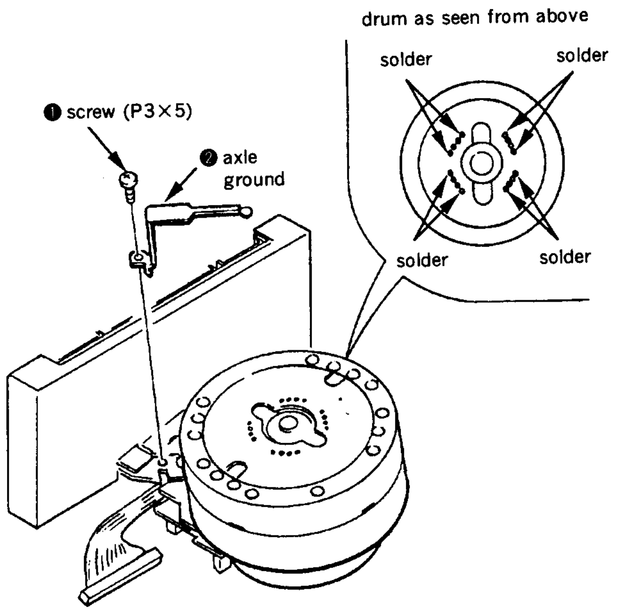


Fig. 1-4

1-5. ATTACHING THE UPPER DRUM

① When inserting the revolving drum in the lower drum, be very careful not to leave fingerprints or other soiling on the contact surface.

② Refer to Fig. 1-5 and make sure SP1 on the revolving upper drum PC board is aligned in the same direction as S1 on the rotor transformer PC board (lower drum side). Attach so that the holes on the upper and lower drums are aligned with each other.

③ If it proves difficult to attach the drum, attach while moving the drum slightly backward and foward and left and right.

Caution : Be careful not to damage the head at this time. Also make sure that the drum is securely inserted and not rattling.

④ Refer to Fig. 1-5 to tighten the two screws ❸ (PSW3×8).

Caution : Lightly tighten one of the screws and then the other screw and check to see that there is no rattling before tightening the screws completely.

⑤ Solder the sixteen locations on the PC board from the revolving drum.

⑥ Tighten screw ❶ (P3×5) so that the protruding portion on the end of axle ground ❷ is in contact with the center of the drum axle.

Caution : When attaching the axle ground ❷ be careful not to apply pressure to the spring section of the axle ground.

SLV-575UC

upper drum assy (DZR-14-R)	8-848-529-01

SLV-676UC

upper drum assy (DZR-11-R)	8-848-528-01

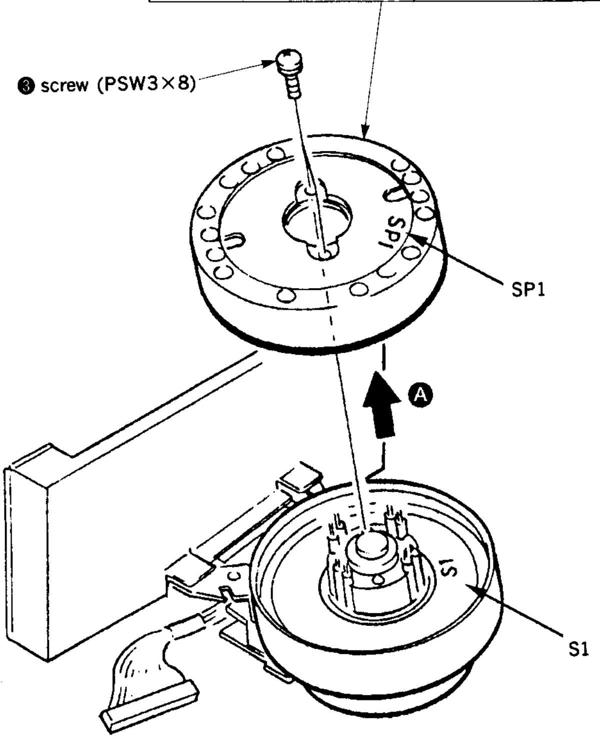
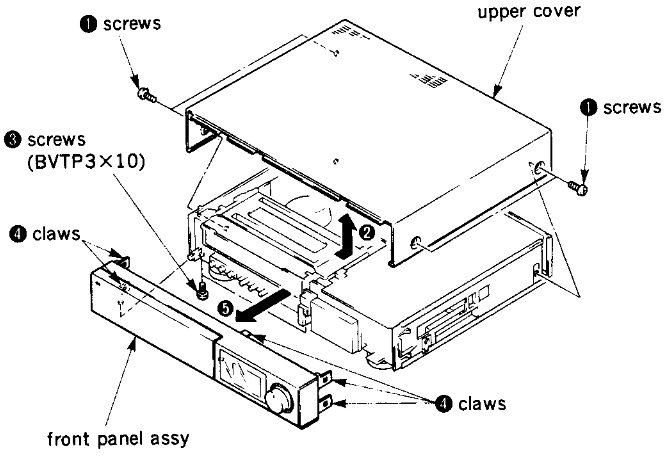


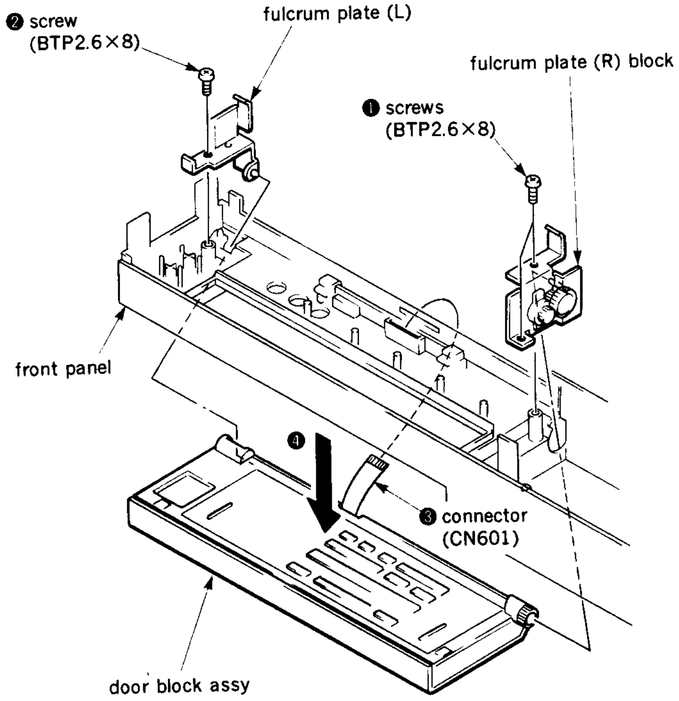
Fig. 1-5

SECTION 2
DISASSEMBLY

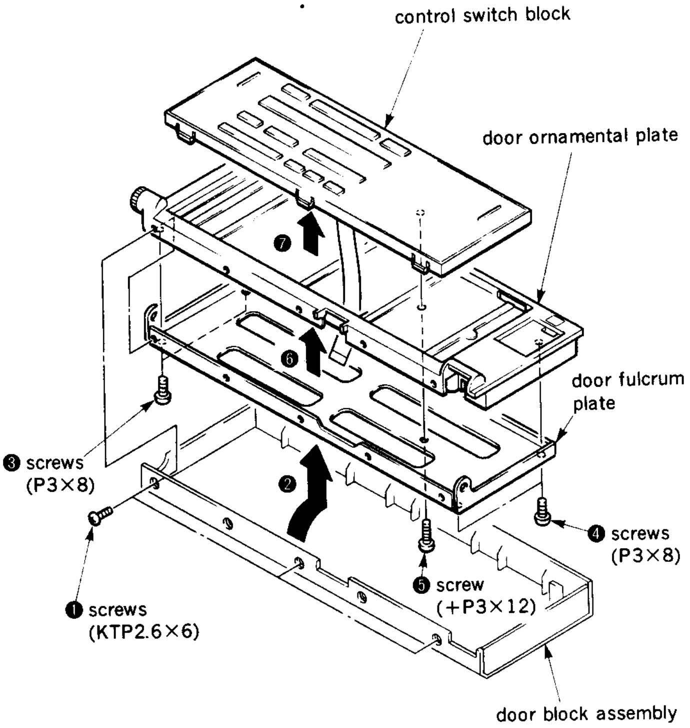
2-1. REMOVAL OF UPPER COVER AND FRONT PANEL


❶ screws
upper cover
❶ screws
❸ screws
(BVTP3×10)
❹ claws
❷
❺
❹ claws
front panel assy

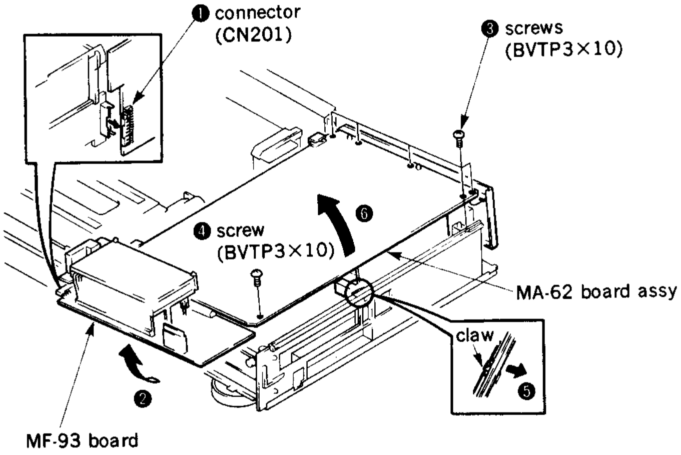
2-2. REMOVAL OF DOOR BLOCK


❷ screw
(BTP2.6×8)
fulcrum plate (L)
fulcrum plate (R) block
❶ screws
(BTP2.6×8)
front panel
❹
❸ connector
(CN601)
door block assy

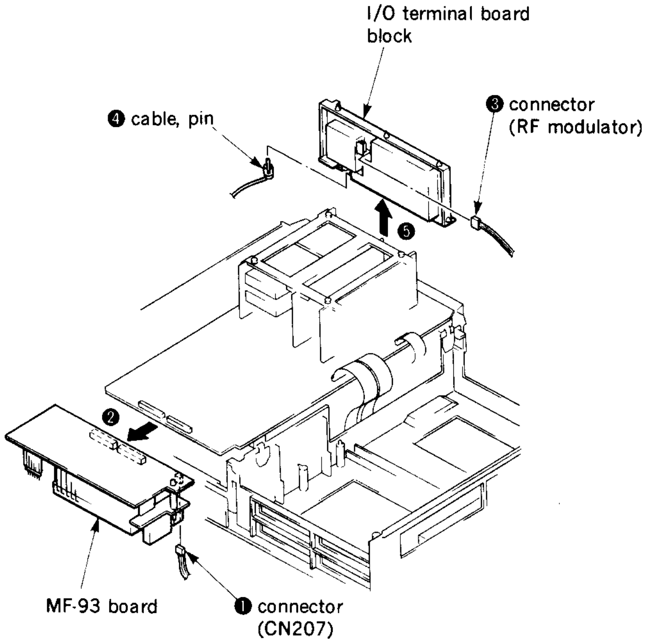
2-3. REMOVAL OF CONTROL SWITCH BLOCK


control switch block
door ornamental plate
❼
❻
door fulcrum
plate
❸ screws
(P3×8)
❷
❹ screws
(P3×8)
❺ screw
(+P3×12)
❶ screws
(KTP2.6×6)
door block assembly

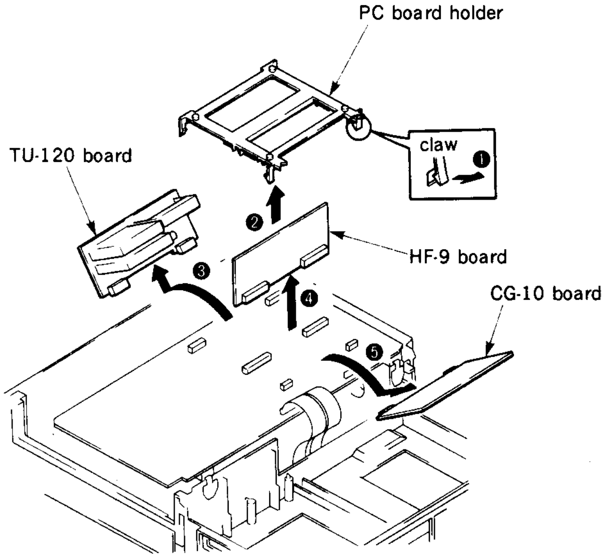
2-4. REMOVAL OF MA-62 BOARD


❶ connector
(CN201)
❸ screws
(BVTP3×10)
❹ screw
(BVTP3×10)
❻
MA-62 board assy
claw
❺
❷
MF-93 board

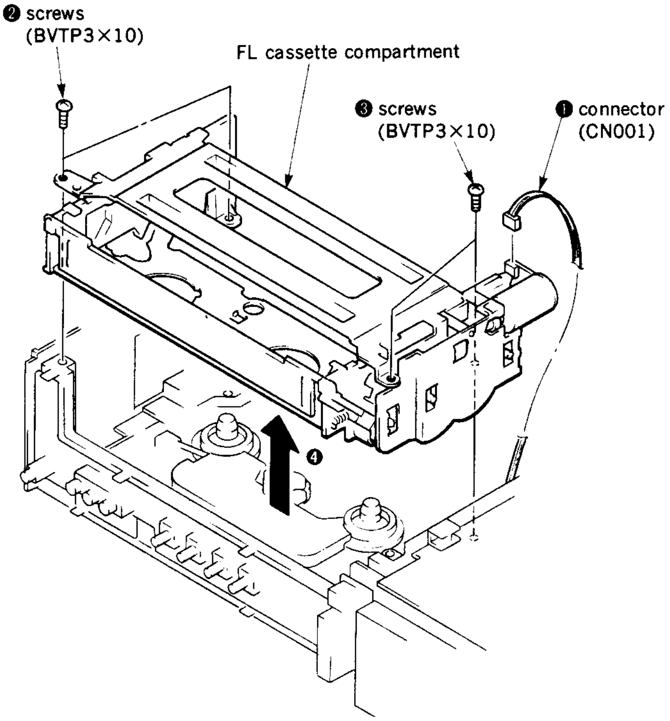
2-5. REMOVAL OF MF-93 BOARD AND I/O TERMINAL BOARD BLOCK


I/O terminal board block
❹ cable, pin
❸ connector (RF modulator)
❺
❷
MF-93 board
❶ connector (CN207)

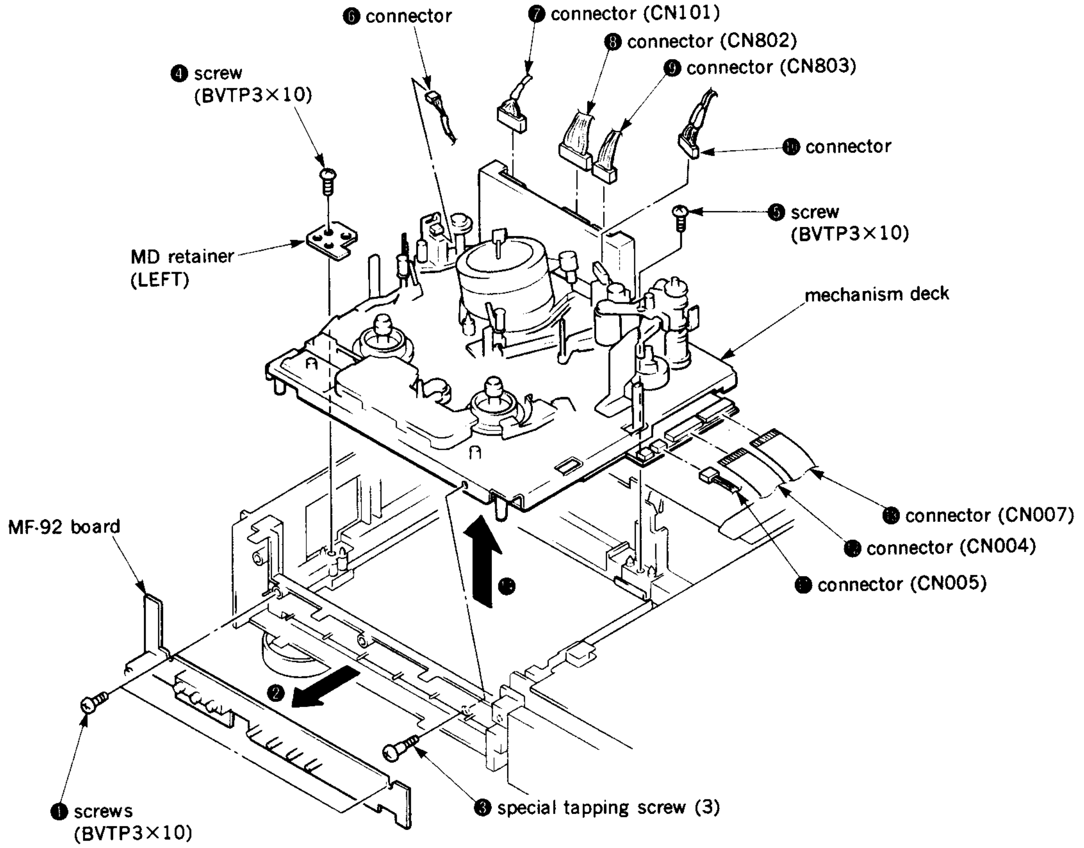
2-6. REMOVAL OF TU-120 BOARD, HF-9 BOARD AND CG-10 BOARD


PC board holder
claw
❶
TU-120 board
❷
❸
HF-9 board
❹
CG-10 board
❺

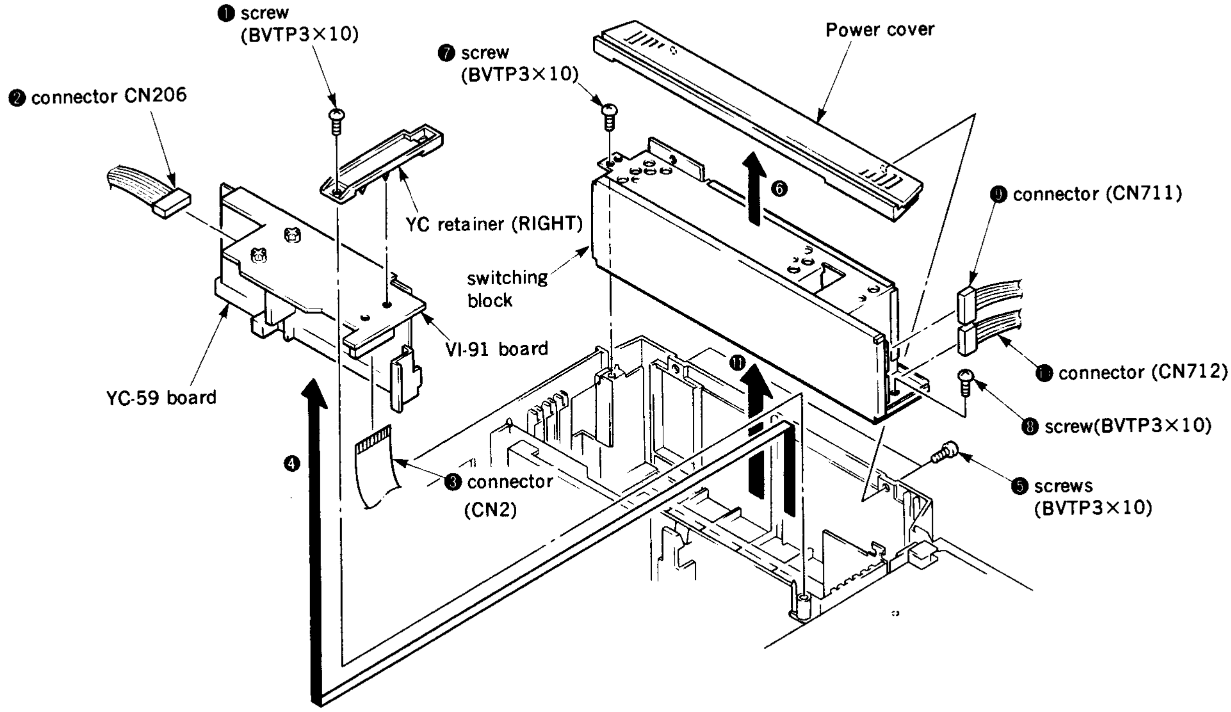
2-7. REMOVAL OF FL CASSETTE COMPARTMENT


❷ screws (BVTP3×10)
FL cassette compartment
❸ screws (BVTP3×10)
❶ connector (CN001)
❹

2-8. REMOVAL OF MECHANISM DECK AND MF-92 BOARD


❻ connector
❼ connector (CN101)
❽ connector (CN802)
❾ connector (CN803)
❹ screw
(BVTP3×10)
❿ connector
❺ screw
(BVTP3×10)
MD retainer
(LEFT)
mechanism deck
⓭ connector (CN007)
⓬ connector (CN004)
⓫ connector (CN005)
MF-92 board
⓮
❷
❶ screws
(BVTP3×10)
❸ special tapping screw (3)

2-9. REMOVAL OF VI-91 BOARD, YC-59 BOARD AND SWITCHING BLOCK


❶ screw
(BVTP3×10)
❼ screw
(BVTP3×10)
Power cover
❷ connector CN206
❻
YC retainer (RIGHT)
switching
block
❾ connector (CN711)
VI-91 board
⓫
❿ connector (CN712)
YC-59 board
❽ screw(BVTP3×10)
❹
❸ connector
(CN2)
❺ screws
(BVTP3×10)

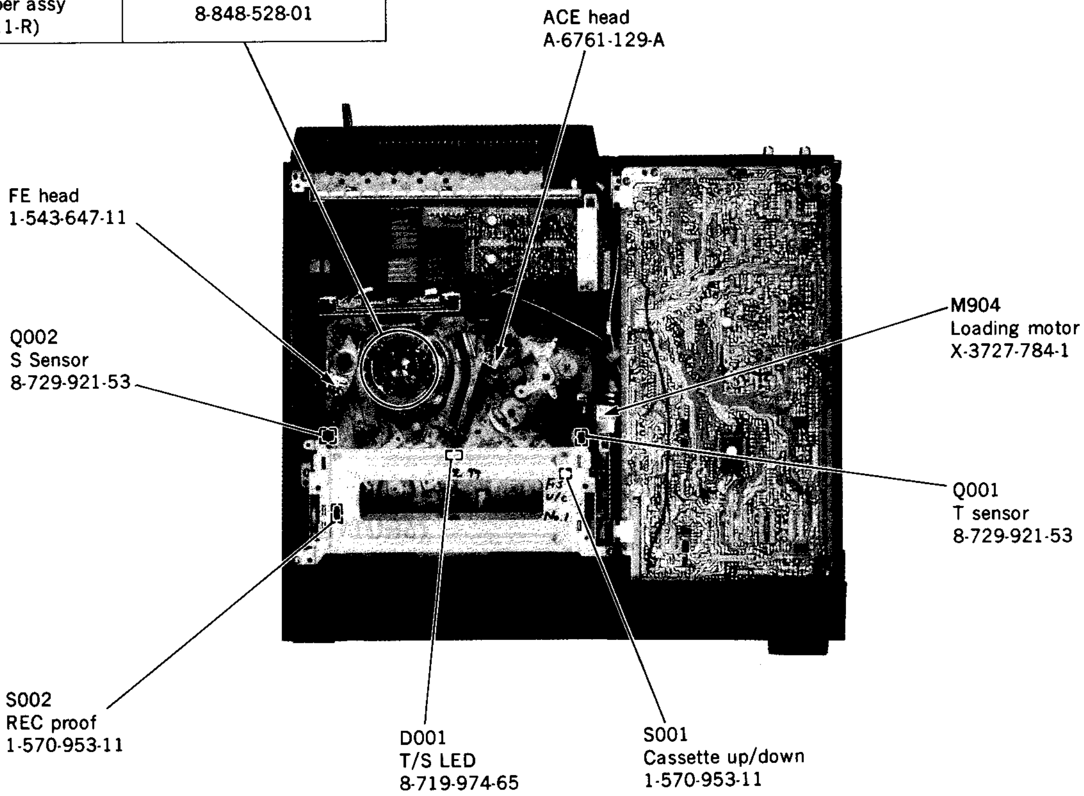
2-10. INTERNAL VIEWS

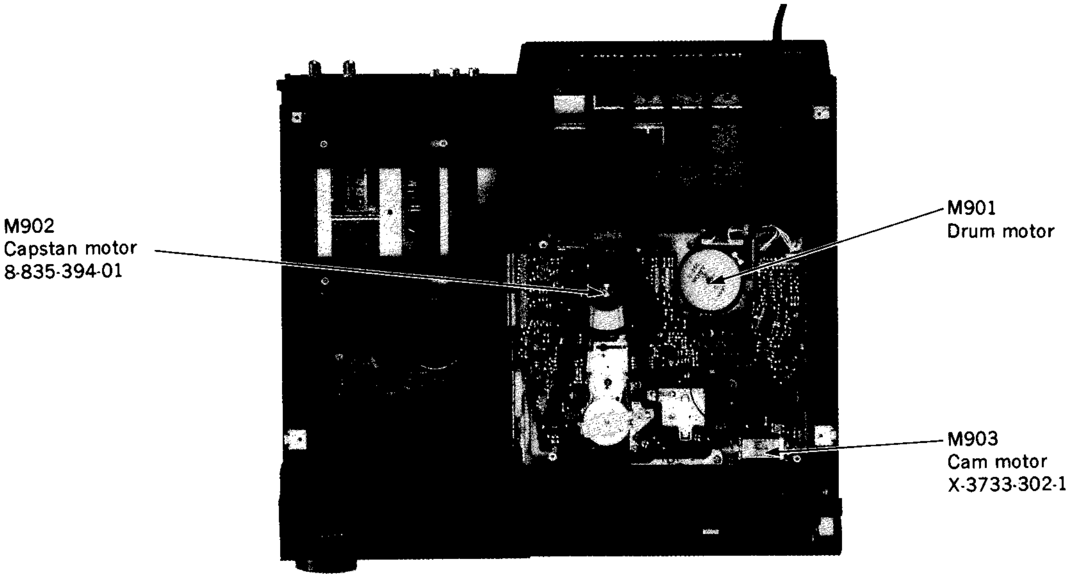
SLV-575UC

Drum assy (DZH-14A-R)	8-848-518-01
Drum upper assy (DZR-14-R)	8-848-529-01

SLV-676UC

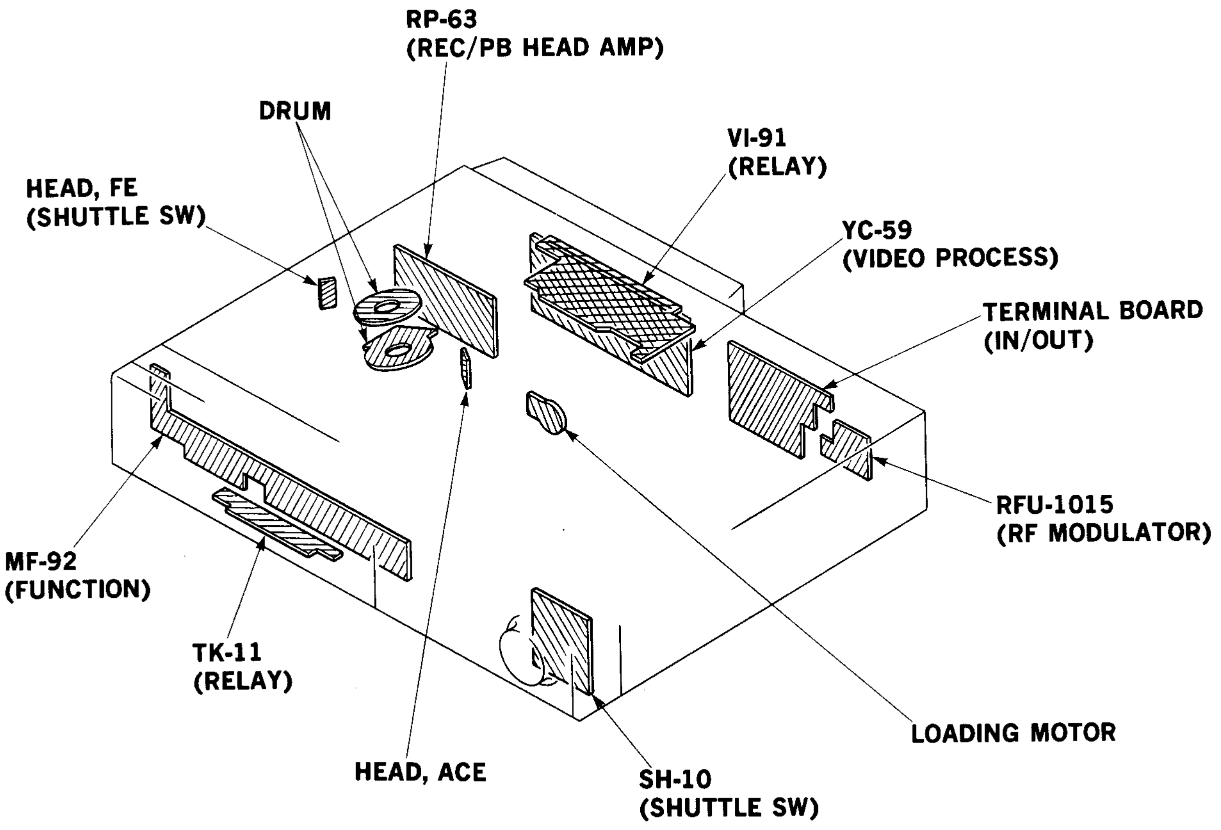
Drum assy (DZH-11A-R)	8-848-515-11
Drum upper assy (DZR-11-R)	8-848-528-01

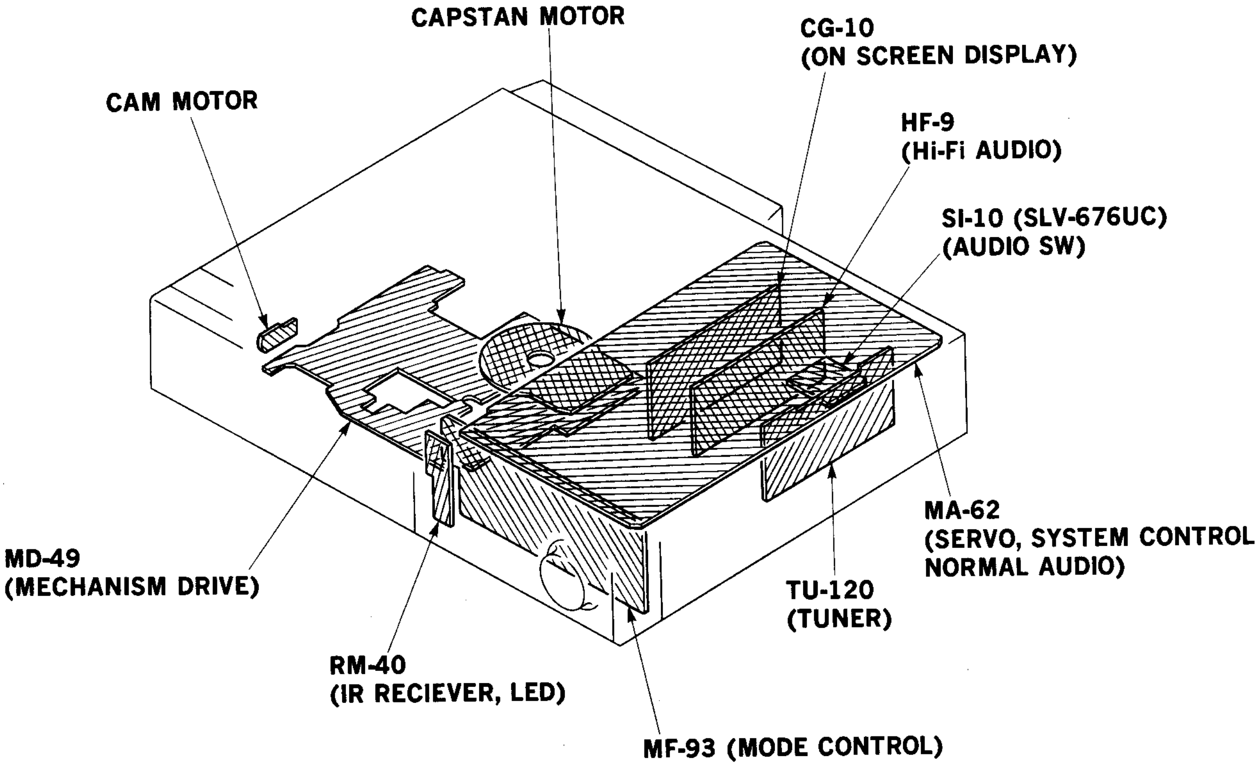

ACE head
A-6761-129-A
FE head
1-543-647-11
Q002
S Sensor
8-729-921-53
M904
Loading motor
X-3727-784-1
Q001
T sensor
8-729-921-53
S002
REC proof
1-570-953-11
D001
T/S LED
8-719-974-65
S001
Cassette up/down
1-570-953-11


M902
Capstan motor
8-835-394-01
M901
Drum motor
M903
Cam motor
X-3733-302-1

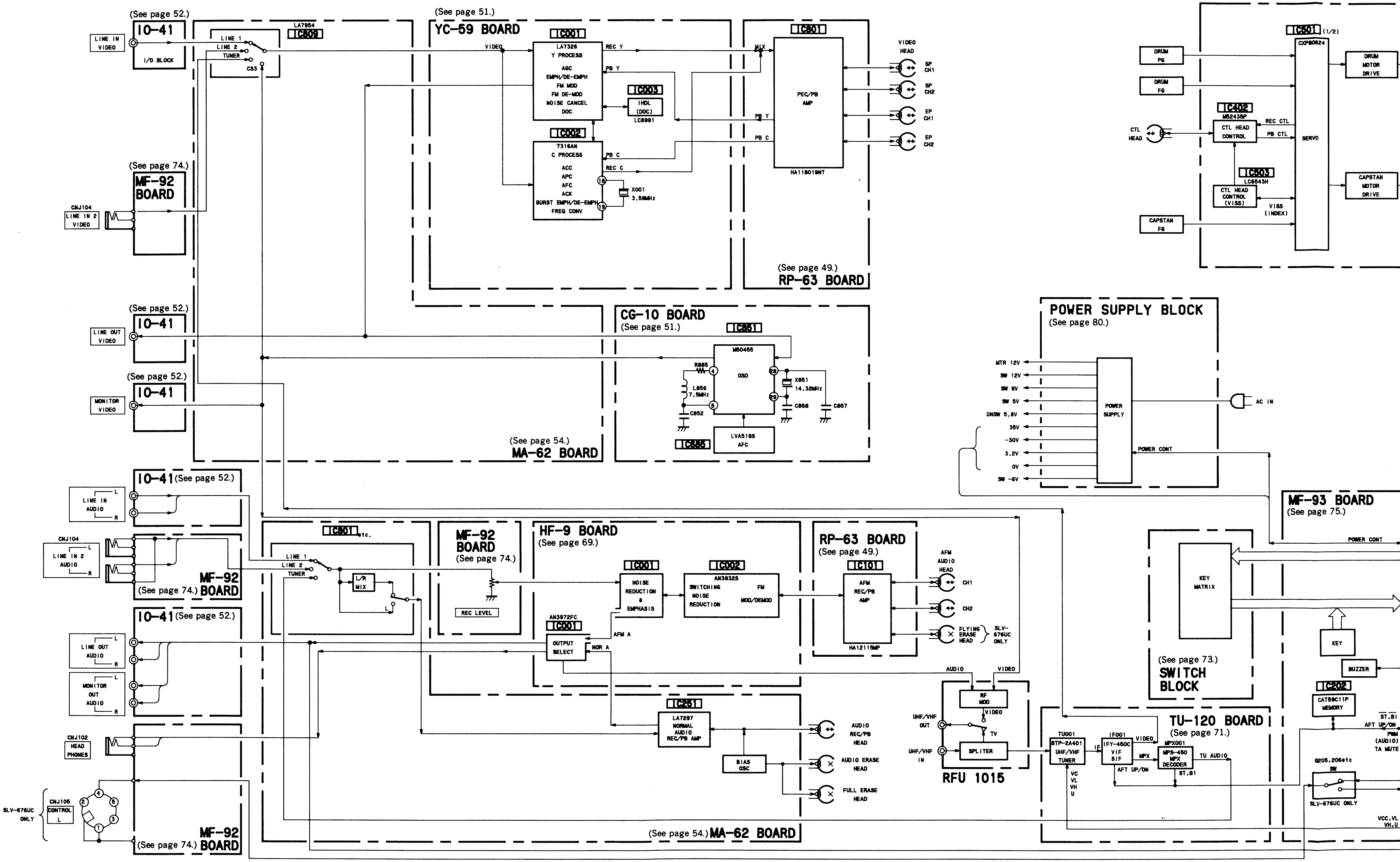
SECTION 3
DIAGRAMS

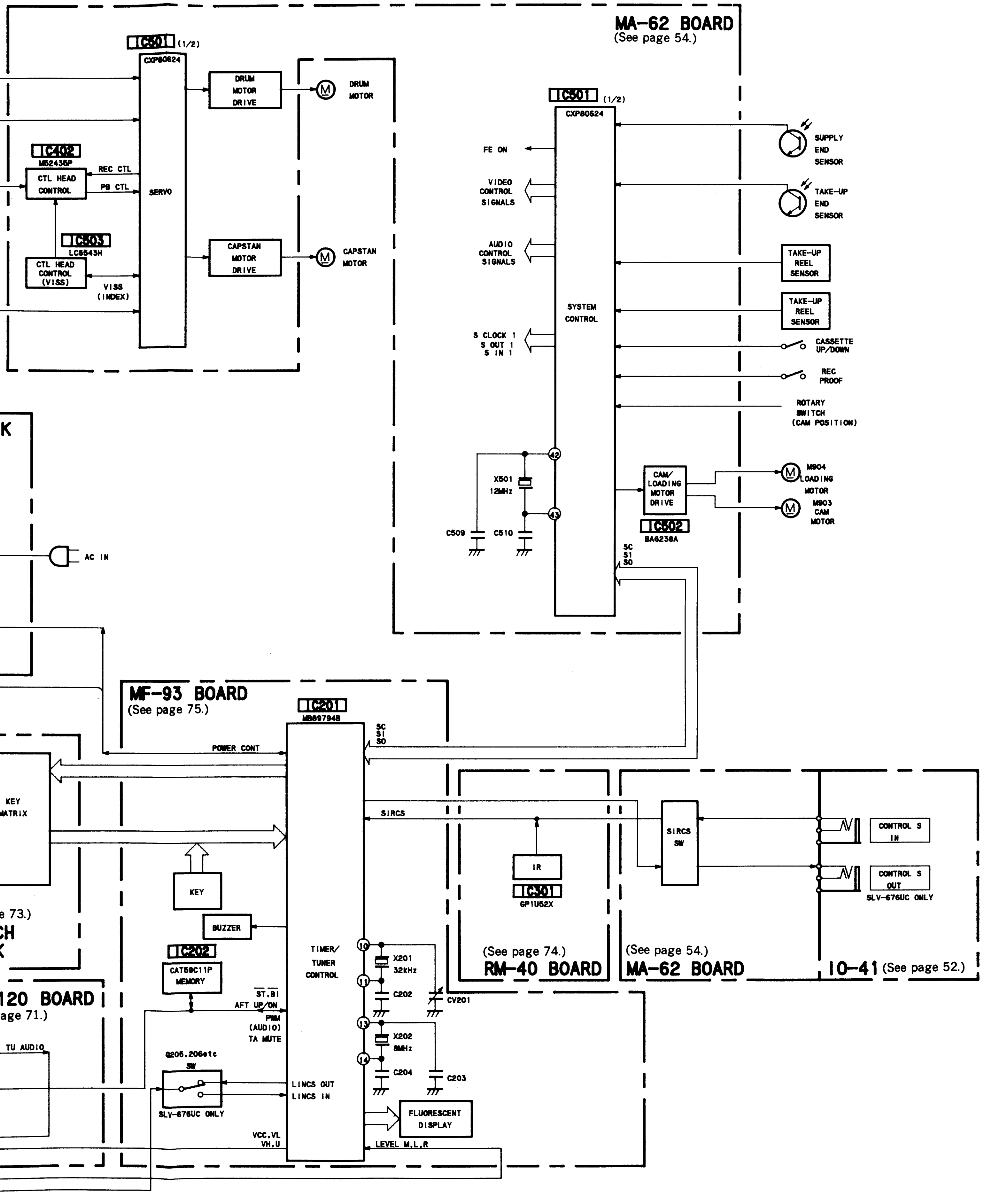
3-1. CIRCUIT BOARDS LOCATION


RP-63
(REC/PB HEAD AMP)
DRUM
VI-91
(RELAY)
HEAD, FE
(SHUTTLE SW)
YC-59
(VIDEO PROCESS)
TERMINAL BOARD
(IN/OUT)
RFU-1015
(RF MODULATOR)
MF-92
(FUNCTION)
TK-11
(RELAY)
LOADING MOTOR
HEAD, ACE
SH-10
(SHUTTLE SW)

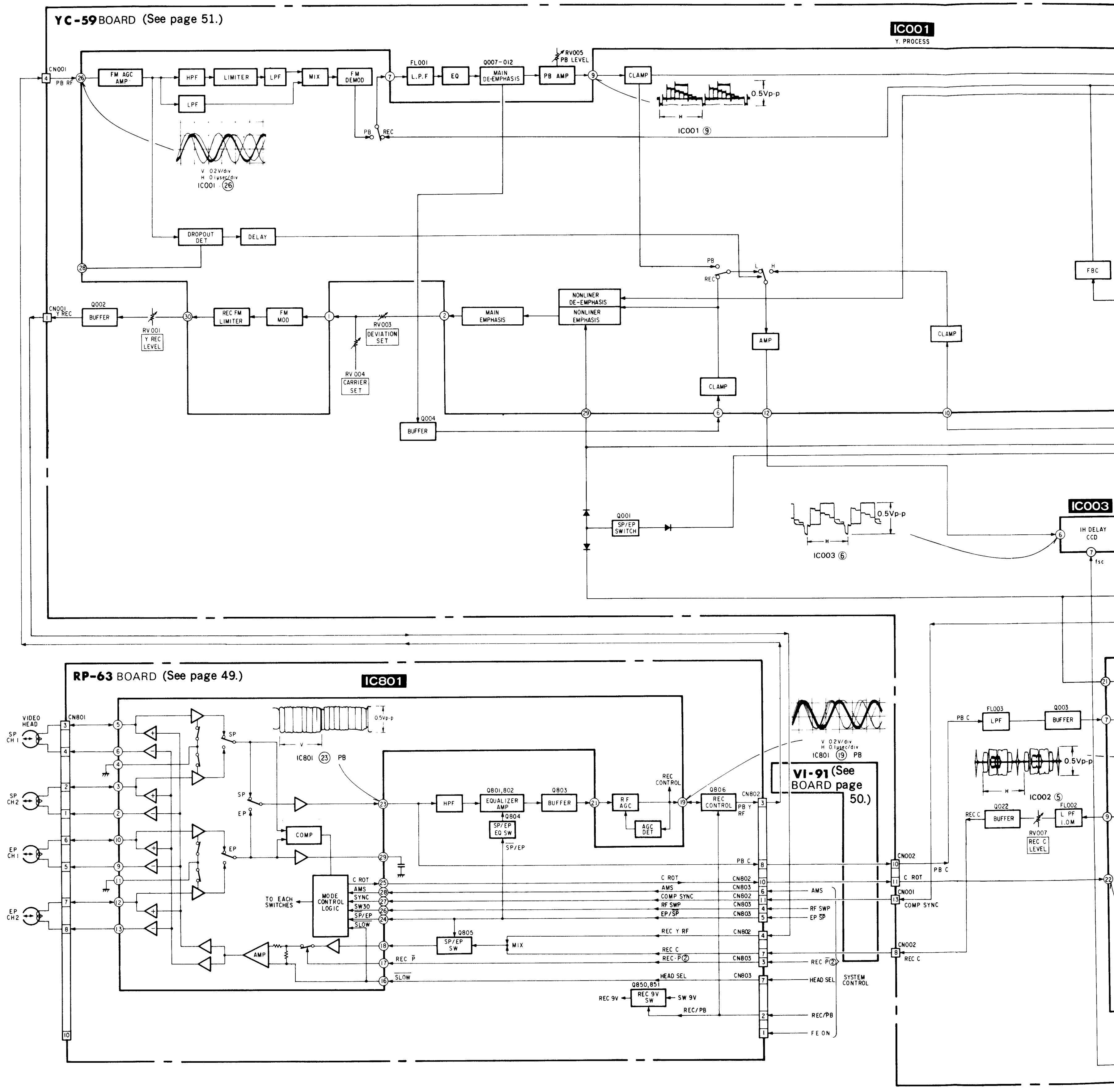

CAPSTAN MOTOR
CG-10
(ON SCREEN DISPLAY)
CAM MOTOR
HF-9
(Hi-Fi AUDIO)
SI-10 (SLV-676UC)
(AUDIO SW)
MA-62
(SERVO, SYSTEM CONTROL
NORMAL AUDIO)
MD-49
(MECHANISM DRIVE)
TU-120
(TUNER)
RM-40
(IR RECIEVER, LED)
MF-93 (MODE CONTROL)

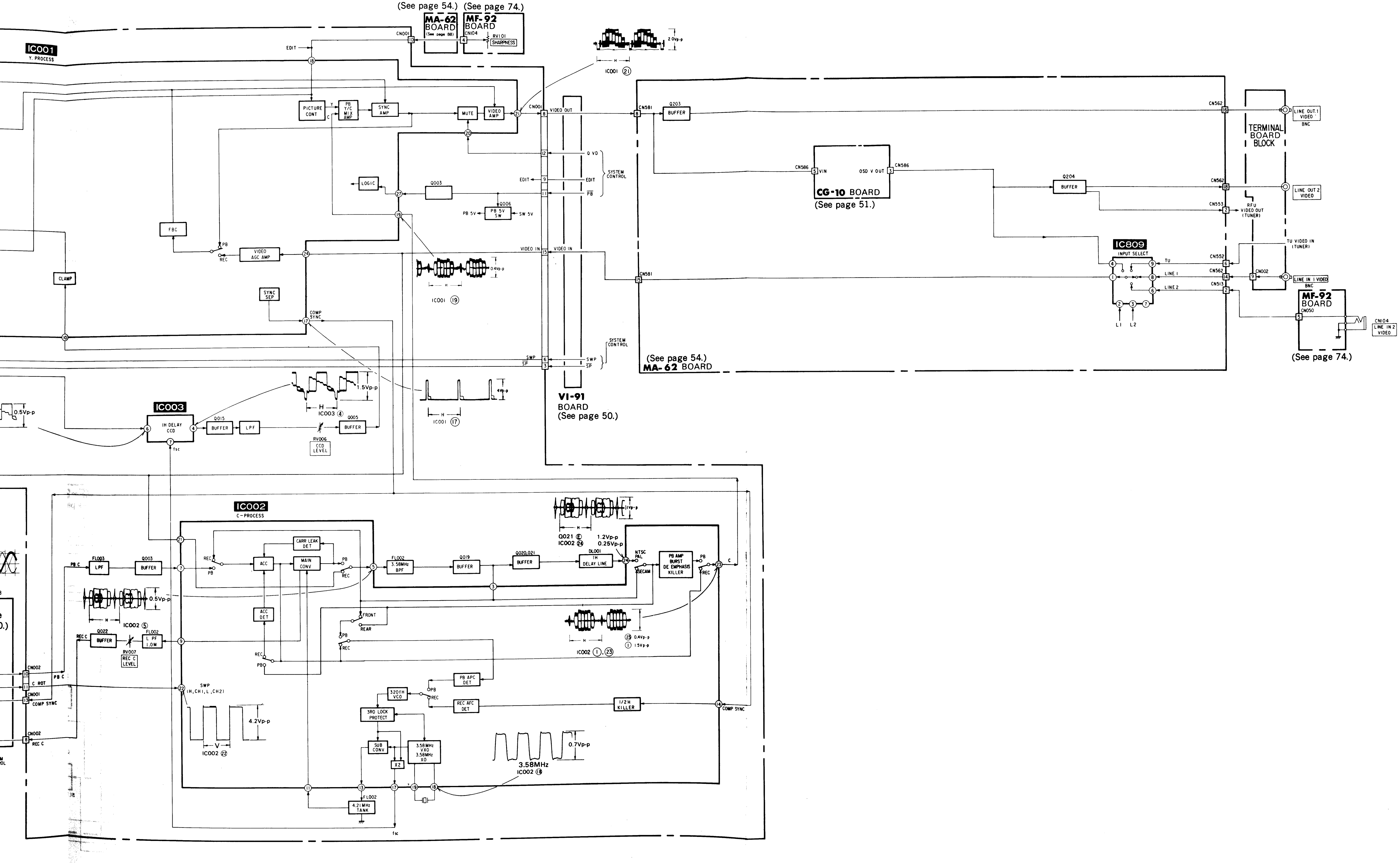
3-2. OVERALL BLOCK DIAGRAM


(See page 52.)
IO-41
LINE IN VIDEO
I/O BLOCK
IC509
LA7954
LINE 1
LINE 2
TUNER
CS3
(See page 51.)
YC-59 BOARD
VIDEO
IC001
LA7326
Y PROCESS
AGC
EMPH/DE-EMPH
FM MOD
FM DE-MOD
NOISE CANCEL
DOC
REC Y
PB Y
IC003
IHDL
(DOC)
LC8991
IC002
7316AN
C PROCESS
ACC
APC
AFC
ACK
BURST EMPH/DE-EMPH
FREQ CONV
PB C
REC C
18
19
X001
3.58MHz
IC801
MIX
PB Y
PB C
PEC/PB
AMP
HA118019NT
VIDEO HEAD
SP CH1
SP CH2
EP CH1
EP CH2
(See page 49.)
RP-63 BOARD
(See page 74.)
MF-92 BOARD
CNJ104
LINE IN 2 VIDEO
(See page 52.)
IO-41
LINE OUT VIDEO
(See page 52.)
IO-41
MONITOR VIDEO
CG-10 BOARD
(See page 51.)
IC851
M50455
OSD
R855
L856
7.5MHz
C852
X851
14.32MHz
C858
C857
4
5
28
29
IC855
LVA519S
AFC
(See page 54.)
MA-62 BOARD
IO-41 (See page 52.)
LINE IN AUDIO
L
R
CNJ104
LINE IN 2 AUDIO
MF-92 BOARD
(See page 74.)
IO-41 (See page 52.)
LINE OUT AUDIO
MONITOR OUT AUDIO
CNJ102
HEAD PHONES
SLV-676UC ONLY
CNJ105
CONTROL L
1
2
3
4
5
MF-92 BOARD
(See page 74.)
IC801 etc.
LINE 1
LINE 2
TUNER
L/R MIX
L
L
MF-92 BOARD
(See page 74.)
REC LEVEL
HF-9 BOARD
(See page 69.)
IC001
NOISE REDUCTION & EMPHASIS
IC002
AN3932S
SWITCHING NOISE REDUCTION
FM MOD/DEMOD
AN3972FC
IC001
OUTPUT SELECT
AFM A
NOR A
RP-63 BOARD
(See page 49.)
IC101
AFM REC/PB AMP
HA12115MP
AFM AUDIO HEAD
CH1
CH2
FLYING ERASE HEAD
SLV-676UC ONLY
IC251
LA7297
NORMAL AUDIO REC/PB AMP
BIAS OSC
AUDIO REC/PB HEAD
AUDIO ERASE HEAD
FULL ERASE HEAD
(See page 54.) MA-62 BOARD
AUDIO
VIDEO
RF MOD
VIDEO
TV
UHF/VHF OUT
UHF/VHF IN
SPLITER
RFU 1015
DRUM PG
DRUM FG
CTL HEAD
IC402
M52436P
CTL HEAD CONTROL
REC CTL
PB CTL
IC503
LC6543H
CTL HEAD CONTROL (VISS)
VISS (INDEX)
CAPSTAN FG
IC501 (1/2)
CXP80624
SERVO
DRUM MOTOR DRIVE
CAPSTAN MOTOR DRIVE
POWER SUPPLY BLOCK
(See page 80.)
MTR 12V
SW 12V
SW 9V
SW 5V
UNSW 5.8V
35V
-30V
3.2V
0V
SW -6V
POWER SUPPLY
POWER CONT
AC IN
MF-93 BOARD
(See page 75.)
POWER CONT
KEY MATRIX
KEY
BUZZER
(See page 73.)
SWITCH BLOCK
IC202
CAT59C11P
MEMORY
ST.BI
AFT UP/ON
PWM
(AUDIO)
TA MUTE
Q205,206etc
SW
SLV-676UC ONLY
VCC.VL
VH.U
TU-120 BOARD
(See page 71.)
TU001
BTP-2A401
UHF/VHF TUNER
VC
VL
VH
U
IF
IF001
IFY-450C
VIF
SIF
VIDEO
MPX
AFT UP/ON
MPX001
MPS-450
MPX DECODER
TU AUDIO
ST.B1

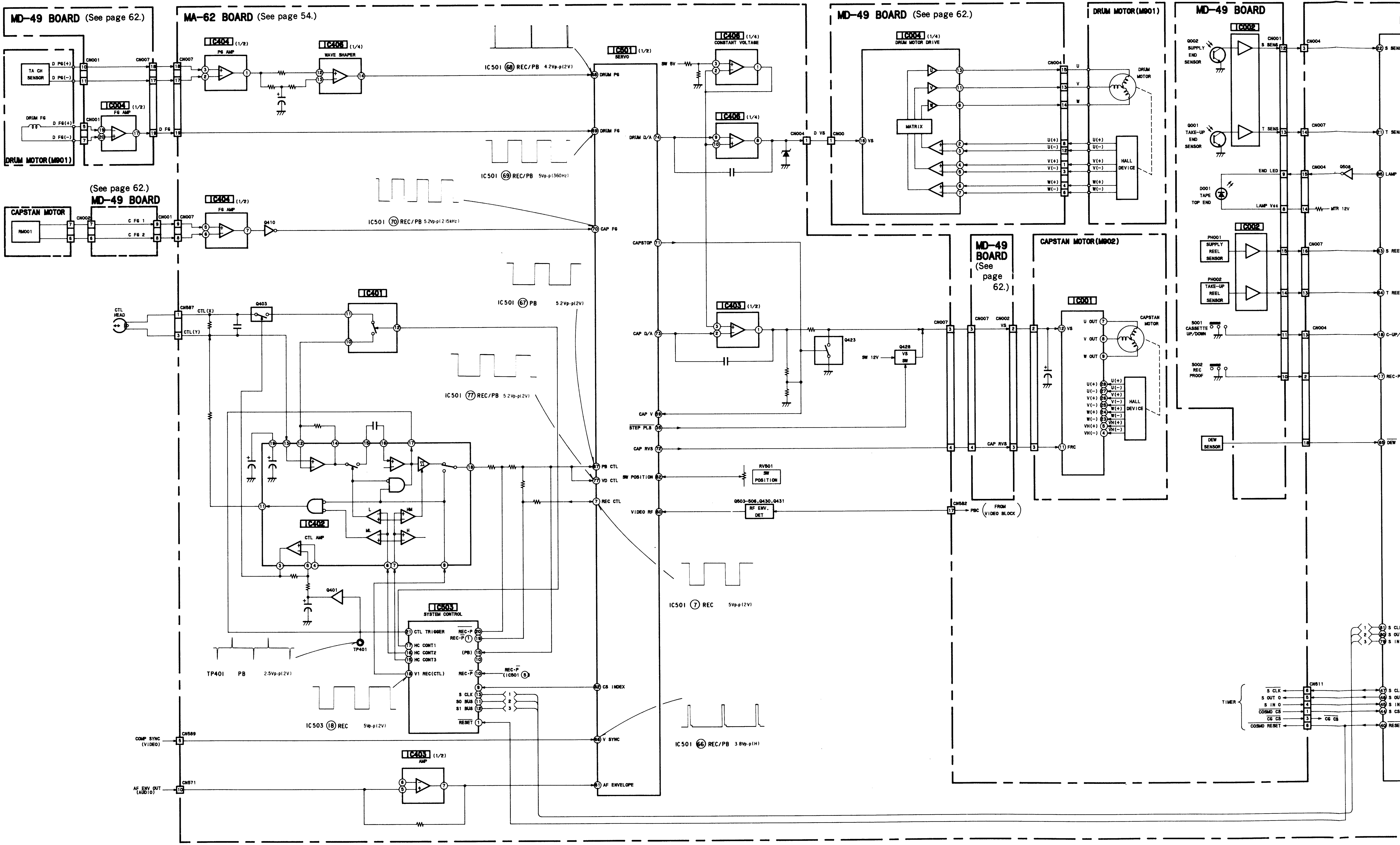

MA-62 BOARD
(See page 54.)
IC501 (1/2)
CXP80624
DRUM MOTOR DRIVE
DRUM MOTOR
IC402
M52435P
CTL HEAD CONTROL
REC CTL
PB CTL
SERVO
IC503
LC6543H
CTL HEAD CONTROL (VISS)
VISS (INDEX)
CAPSTAN MOTOR DRIVE
CAPSTAN MOTOR
IC501 (1/2)
CXP80624
FE ON
VIDEO CONTROL SIGNALS
AUDIO CONTROL SIGNALS
SYSTEM CONTROL
S CLOCK 1
S OUT 1
S IN 1
SUPPLY END SENSOR
TAKE-UP END SENSOR
TAKE-UP REEL SENSOR
TAKE-UP REEL SENSOR
CASSETTE UP/DOWN
REC PROOF
ROTARY SWITCH (CAM POSITION)
42
43
X501
12MHz
C509
C510
CAM/ LOADING MOTOR DRIVE
IC502
BA6238A
M904 LOADING MOTOR
M903 CAM MOTOR
SC
S1
SO
K
AC IN
MF-93 BOARD
(See page 75.)
IC201
MB89794B
SC
SI
SO
POWER CONT
KEY MATRIX
SIRCS
KEY
BUZZER
e 73.)
CH
K
IC202
CAT59C11P MEMORY
TIMER/ TUNER CONTROL
10
11
13
14
X201
32kHz
C202
CV201
X202
8MHz
C204
C203
120 BOARD
age 71.)
TU AUDIO
ST.BI
AFT UP/ON
PWM (AUDIO)
TA MUTE
Q205.206etc SW
SLV-676UC ONLY
LINCS OUT
LINCS IN
FLUORESCENT DISPLAY
VCC.VL VH.U
LEVEL M.L.R
IR
IC301
GP1U52X
(See page 74.)
RM-40 BOARD
SIRCS SW
(See page 54.)
MA-62 BOARD
CONTROL S IN
CONTROL S OUT
SLV-676UC ONLY
IO-41 (See page 52.)

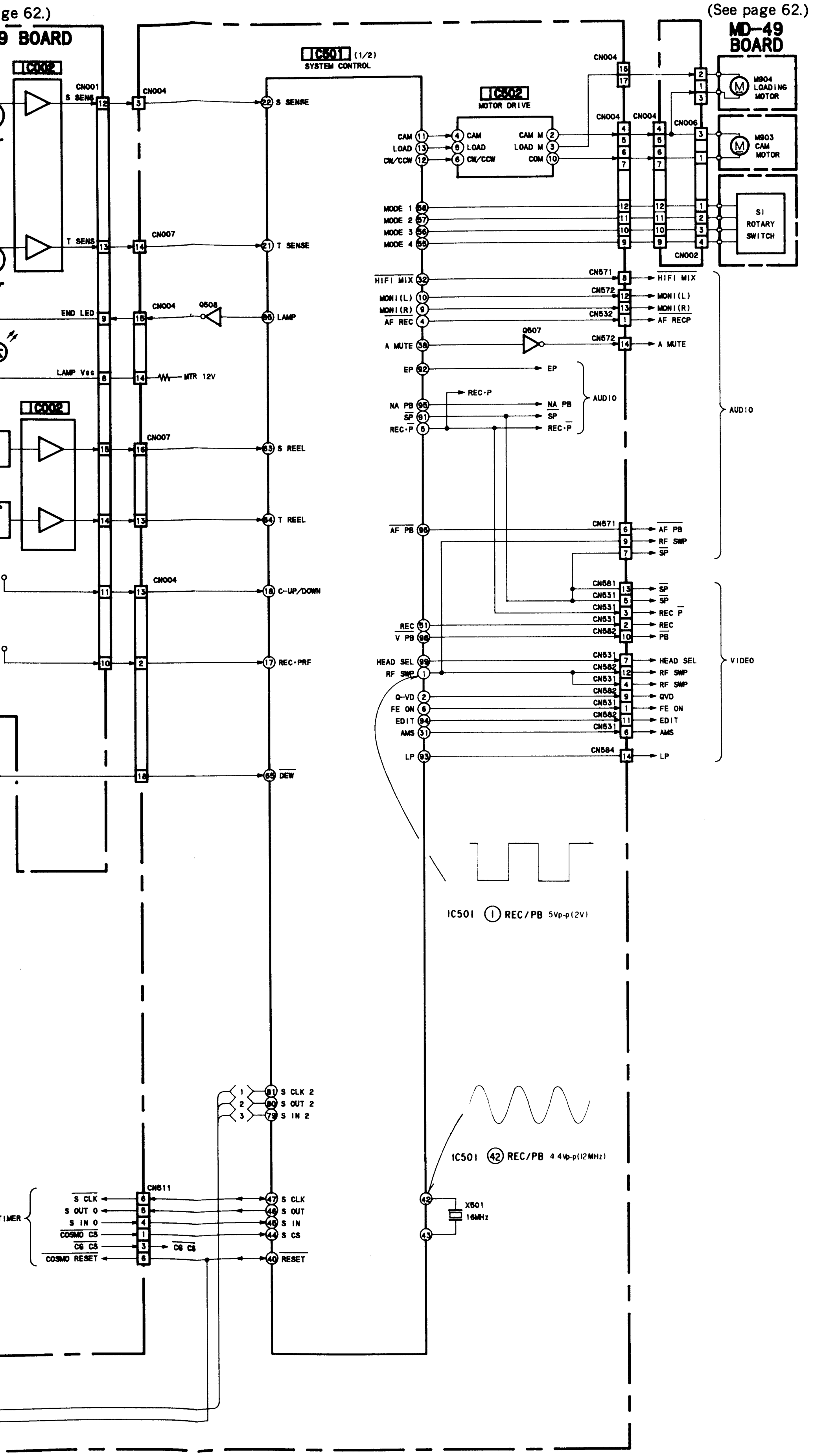
3-3. VIDEO BLOCK DIAGRAM


YC-59 BOARD (See page 51.)
IC001
Y. PROCESS
CN001
PB RF
FM AGC AMP
HPF
LIMITER
LPF
MIX
FM DEMOD
LPF
FL001
L.P.F
EQ
Q007~012
MAIN DE-EMPHASIS
RV005
PB LEVEL
PB AMP
CLAMP
0.5Vp-p
H
IC001 ⑨
PB
REC
V: 0.2V/div
H: 0.1μsec/div
IC001 ㉖
DROPOUT DET
DELAY
CN001
Y REC
Q002
BUFFER
RV001
Y REC LEVEL
REC FM LIMITER
FM MOD
RV003
DEVIATION SET
RV004
CARRIER SET
MAIN EMPHASIS
NONLINER DE-EMPHASIS
NONLINER EMPHASIS
PB
REC
L
H
AMP
CLAMP
CLAMP
FBC
Q004
BUFFER
Q001
SP/EP SWITCH
0.5Vp-p
H
IC003 ⑥
IC003
1H DELAY CCD
fsc
RP-63 BOARD (See page 49.)
IC801
VIDEO HEAD
SP CH1
SP CH2
EP CH1
EP CH2
CN801
SP
EP
0.5Vp-p
V
IC801 ㉓ PB
HPF
Q801,802
EQUALIZER AMP
Q804
SP/EP EQ SW
SP/EP
Q803
BUFFER
RF AGC
AGC DET
REC CONTROL
Q806
REC CONTROL
CN802
PB Y RF
COMP
TO EACH SWITCHES
MODE CONTROL LOGIC
C ROT
AMS
SYNC
SW30
SP/EP
SLOW
AMP
Q805
SP/EP SW
MIX
REC P
SLOW
PB C
C ROT
AMS
COMP SYNC
RF SWP
EP/SP
REC Y RF
REC C
REC P②
HEAD SEL
Q850,851
REC 9V SW
REC 9V
SW 9V
REC/PB
CN803
FE ON
SYSTEM CONTROL
V: 0.2V/div
H: 0.1μsec/div
IC801 ⑲ PB
VI-91 (See BOARD page 50.)
CN002
PB C
C ROT
CN001
COMP SYNC
REC C
FL003
LPF
Q003
BUFFER
0.5Vp-p
H
IC002 ⑤
Q022
BUFFER
RV007
REC C LEVEL
FL002
L PF 1.0M


(See page 54.)
MA-62 BOARD
(See page 88)
(See page 74.)
MF-92 BOARD
CN104
RV101
SHARPNESS
CN001
EDIT
IC001
Y. PROCESS
PICTURE CONT
PB Y/C MIX AMP
SYNC AMP
MUTE
VIDEO AMP
VIDEO OUT
Q VD
EDIT
PB
SYSTEM CONTROL
LOGIC
Q003
Q006
PB 5V SW
PB 5V
SW 5V
FBC
PB
REC
VIDEO AGC AMP
VIDEO IN
CLAMP
SYNC SEP
COMP SYNC
SWP
SP
2.0Vp-p
H
IC001 ㉑
0.4Vp-p
IC001 ⑲
4Vp-p
IC001 ⑰
VI-91 BOARD
(See page 50.)
IC003
1H DELAY CCD
fsc
Q015
BUFFER
LPF
RV006
CCD LEVEL
Q005
BUFFER
1.5Vp-p
IC003 ④
0.5Vp-p
IC002
C-PROCESS
PB C
FL003
LPF
Q003
BUFFER
CARR LEAK DET
ACC
MAIN CONV
ACC DET
FL002
3.58MHz BPF
Q019
BUFFER
Q020,021
BUFFER
DL001
1H DELAY LINE
NTSC PAL
SECAM
PB AMP BURST DE EMPHASIS KILLER
C
FRONT
REAR
11Vp-p
Q021 Ⓔ
IC002 ㉔
1.2Vp-p
0.25Vp-p
0.5Vp-p
IC002 ⑤
REC C
Q022
BUFFER
RV007
REC C LEVEL
FL002
L PF 1.0M
㉓ 0.4Vp-p
① 1.5Vp-p
IC002 ①, ㉓
CN002
C ROT
CN001
COMP SYNC
REC C
SWP (H, CH1, L, CH2)
4.2Vp-p
V
IC002 ㉒
PB APC DET
320 1H VCO
REC AFC DET
1/2H KILLER
3RO LOCK PROTECT
SUB CONV
X2
3.58MHz VXO 3.58MHz XO
FL002
4.21MHz TANK
0.7Vp-p
3.58MHz
IC002 ⑱
CN581
Q203
BUFFER
CN586
VIN
OSD V OUT
CG-10 BOARD
(See page 51.)
Q204
BUFFER
CN562
CN553
RFU VIDEO OUT (TUNER)
TERMINAL BOARD BLOCK
LINE OUT.1 VIDEO
BNC
LINE OUT 2 VIDEO
TU VIDEO IN (TUNER)
IC809
INPUT SELECT
TU
LINE 1
LINE 2
CN552
CN513
CN002
LINE IN 1 VIDEO
BNC
L1
L2
MF-92 BOARD
CN050
CN104
LINE IN 2 VIDEO
(See page 74.)
(See page 54.)
MA-62 BOARD

3-4. SERVO, SYSTEM CONTROL BLOCK DIAGRAM


MD-49 BOARD (See page 62.)
TA CH SENSOR
D PG(+)
D PG(−)
CN001
CN007
DRUM FG
D FG(+)
D FG(−)
IC004 (1/2) FG AMP
D FG
DRUM MOTOR(M901)
(See page 62.)
MD-49 BOARD
CAPSTAN MOTOR
RM001
CN002
C FG 1
C FG 2
MA-62 BOARD (See page 54.)
IC404 (1/2) PG AMP
IC406 (1/4) WAVE SHAPER
IC404 (1/2) FG AMP
Q410
IC501 (68) REC/PB 4.2Vp-p(2V)
IC501 (69) REC/PB 5Vp-p(360Hz)
IC501 (70) REC/PB 5.2Vp-p(2.15kHz)
IC501 (67) PB 5.2Vp-p(2V)
IC501 (77) REC/PB 5.2Vp-p(2V)
IC501 (7) REC 5Vp-p(2V)
IC501 (66) REC/PB 3.8Vp-p(H)
IC501 (1/2) SERVO
DRUM PG
DRUM FG
DRUM D/A
CAP FG
CAPSTOP
CAP D/A
CAP V
STEP PLS
CAP RVS
SW POSITION
VIDEO RF
PB CTL
VD CTL
REC CTL
CS INDEX
V SYNC
AF ENVELOPE
CTL HEAD
CN587
CTL(X)
CTL(Y)
Q403
IC401
IC402 CTL AMP
L
HM
ML
H
Q401
TP401
TP401 PB 2.5Vp-p(2V)
IC503 SYSTEM CONTROL
CTL TRIGGER
HC CONT1
HC CONT2
HC CONT3
V1 REC(CTL)
REC·P
REC·P̄
(PB)
REC·P̄ (IC501 (5))
S CLK
S0 BUS
S1 BUS
RESET
IC503 (18) REC 5Vp-p(2V)
CN589
COMP SYNC (VIDEO)
CN571
AF ENV OUT (AUDIO)
IC403 (1/2) AMP
SW 5V
IC406 (1/4) CONSTANT VOLTAGE
IC406 (1/4)
IC403 (1/2)
CN004
D VS
CN00
Q423
SW 12V
Q428 VS SW
RV501 SW POSITION
Q503–506, Q430, Q431 RF ENV. DET
CN582
PBC
FROM VIDEO BLOCK
MD-49 BOARD (See page 62.)
IC004 (1/4) DRUM MOTOR DRIVE
VS
MATRIX
U
V
W
U(+)
U(−)
V(+)
V(−)
W(+)
W(−)
HALL DEVICE
DRUM MOTOR (M901)
DRUM MOTOR
MD-49 BOARD (See page 62.)
CN007
CN002
CAP RVS
CAPSTAN MOTOR (M902)
IC001
U OUT
V OUT
W OUT
VH(+)
VH(−)
FRC
CAPSTAN MOTOR
(See page 62.)
MD-49 BOARD
IC002
Q002 SUPPLY END SENSOR
Q001 TAKE-UP END SENSOR
S SENS
T SENS
END LED
D001 TAPE TOP END
LAMP Vcc
Q508
LAMP
MTR 12V
PH001 SUPPLY REEL SENSOR
PH002 TAKE-UP REEL SENSOR
S001 CASSETTE UP/DOWN
S002 REC PROOF
DEW SENSOR
S SENS
T SENS
S REE
T REE
C-UP/
REC·P
DEW
S CL
S OU
S IN
CN611
TIMER
S CLK
S OUT 0
S IN 0
COSMO CS
C6 CS
COSMO RESET
S CS
RESE


(See page 62.)
9 BOARD
IC002
CN001
S SENS
T SENS
END LED
LAMP Vcc
IC002
TIMER
S CLK
S OUT 0
S IN 0
COSMO CS
CG CS
COSMO RESET
CN004
CN007
CN004
CN007
CN004
CN611
Q508
MTR 12V
CG CS
IC501 (1/2)
SYSTEM CONTROL
S SENSE
T SENSE
LAMP
S REEL
T REEL
C-UP/DOWN
REC-PRF
DEW
S CLK 2
S OUT 2
S IN 2
S CLK
S OUT
S IN
S CS
RESET
IC502
MOTOR DRIVE
CAM
LOAD
CW/CCW
CAM M
LOAD M
COM
MODE 1
MODE 2
MODE 3
MODE 4
HIFI MIX
MONI(L)
MONI(R)
AF REC
A MUTE
Q507
EP
NA PB
SP
REC·P
AUDIO
AF PB
REC
V PB
HEAD SEL
RF SWP
Q-VD
FE ON
EDIT
AMS
LP
X501
16MHz
CN004
CN006
CN002
CN571
CN572
CN532
CN581
CN531
CN582
CN584
HIFI MIX
MONI(L)
MONI(R)
AF RECP
A MUTE
AUDIO
AF PB
RF SWP
SP
REC P
REC
PB
HEAD SEL
QVD
FE ON
EDIT
AMS
LP
VIDEO
(See page 62.)
MD-49
BOARD
M904
LOADING
MOTOR
M903
CAM
MOTOR
S1
ROTARY
SWITCH
IC501 ① REC/PB 5Vp-p(2V)
IC501 ㊷ REC/PB 4.4Vp-p(12MHz)

3-5. SYSTEM CONTROL — VIDEO BLOCK INTERFACE

Signal Name	Pin No.	I/O	STOP/ FF/REW	TAPE LOADING	TAPE UNLOADING	PB	PB· PAUSE	SLOW	×2	CUE	REVIEW	REC	REC· PAUSE	INSERT	INSERT· PAUSE
$\overline{\text{V·PB}}$	MA-62 BOARD IC501 (98)	O	H	H	H	L	L	L	L	L	L	H	H	H/∗12	H/∗12
HEAD SEL	MA-62 BOARD IC501 (99)	O	L	L	L	L	H	∗1	H	L	L	H	L	H/∗12	L
RF SW P (SW30)	MA-62 BOARD IC501 ①	O	∗2	∗2	∗2	∗2	∗2	∗2	∗2	∗2	∗2	∗2	∗2	∗2	∗2
Q VD/V MUTE	MA-62 BOARD IC501 ②	O	L	L	L	∗3	∗4	∗4	∗4	∗4	∗4	L	L	L	L/∗11
FE ON	MA-62 BOARD IC501 ⑥	O	L	L	L	L	L	L	L	L	L	∗5	L	H/∗12	L
EDIT	MA-62 BOARD IC501 (94)	O	L	L	L	∗6	∗6	∗6	∗6	∗6	∗6	∗6	L	∗6	L
AMS	MA-62 BOARD IC501 ㉛	O	L	L	L	L	L	L	L	∗7	∗7	L	L	L	L
$\overline{\text{SP}}$	MA-62 BOARD IC501 (91)	O	∗8	∗8	∗8	∗9	∗9	∗9	∗9	∗9	∗9	∗8	∗8	∗9	∗9
EP	MA-62 BOARD IC501 (92)	O	∗8	∗8	∗8	∗9	∗9	∗9	∗9	∗9	∗9	∗8	∗8	∗9	∗9
LP	MA-62 BOARD IC501 (93)	O				∗9	∗9	∗9	∗9	∗9	∗9			∗9	∗9
REC·$\overline{\text{P}}$	MA-62 BOARD IC501 ⑤	O	L	L	L	L	L	L	L	L	L	H	L	H	L
REC	MA-62 BOARD IC501 (51)	O	L	L	L	L	L	L	L	L	L	H	H	H	H
V SYNC	MA-62 BOARD IC501 (66)	I	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10

∗ 1. "H" when the tape stops, and "L" when it runs (for approx. 40msec).

∗ 2. Synchronized with drum rotaition. 30Hz 50% duty pulse.

∗ 3. Normally "L". "H" when CTL single is not played back.

∗ 4. V-cycle "H" pulse.

∗ 5. "H" when starts recording for approx. 7sec (SP), 21 sec (EP).

∗ 6. Normally "L". "H" during EDIT mode.

∗ 7. HI-Z (2.5V) during SP mode, or "L" during EP mode.

∗ 8. By SP/EP selector, "L" during SP mode, or "H" during EP mode.

∗ 9. By the mode on the recorded tape.

Signal \ Mode	SP	LP	EP
$\overline{\text{SP}}$ (91)	L	H	H
EP (92)	L	L	H
LP (93)	L	H	L

∗ 10. Composite sync. signal (positive polarity).

∗ 11. V-cycle "H" pulse during A INS·PAUSE mode.

∗ 12. "L" during A INS mode or A INS·PAUSE mode.

3-6. SYSTEI

Signal Nar
REC CTL
CAP STO
$\overline{\text{STEP PL}}$
CAP V ∗
SW POSITIO
PB CTL
VD CTL
DRUM P(
DRUM F(
CAP FG
INDEX $\overline{\text{C}}$
CAP RVS
CAP DA ∗
DRUM DA
REC·$\overline{\text{P}}$
$\overline{\text{INSERT}}$

∗ 1. 30Hz pul

∗ 2. Pulse wh

∗ 3. Input ter

Used in

∗ 4. Input ter

∗ 5. Indefinit

∗ 6. Cycle pu

∗ 7. 30Hz "H

3-6. SYSTEM CONTROL — SERVO PERIPHERAL CIRCUIT INTERFACE

Signal Name	Pin No.	I/O	STOP	FF	REW	TAPE LOADING	TAPE UNLOADING	PB	PB·PAUSE	SLOW	×2	CUE	REVIEW	REC	REC·PAUSE	INSERT	INSERT·PAUSE
REC CTL ∗1	MA-62 BOARD IC501 ⑦	O	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1
CAP STOP	MA-62 BOARD IC501 (71)	O	H	L	L	L	L	L	H	H	L	L	L	L	H	L	H
$\overline{\text{STEP PLS}}$	MA-62 BOARD IC501 ㉟	O	H	H	H	H	H	H	H	∗2	H	H	H	H	H	H	H
CAP V ∗3	MA-62 BOARD IC501 (59)	I															
SW POSITION ∗4	MA-62 BOARD IC501 (62)	I															
PB CTL	MA-62 BOARD IC501 (67)	I	H	∗6	∗6			∗1	H/L	∗2	∗6	∗6	∗6	∗1	H	∗1	H
VD CTL	MA-62 BOARD IC501 (77)	I	H	∗6	∗6			∗1	H/L	∗2	∗6	∗6	∗6	∗1	H	∗1	H
DRUM PG	MA-62 BOARD IC501 (68)	I	L	L	L	∗5	∗5	∗7	∗7	∗7	∗7	∗7	∗7	∗7	∗7	∗7	∗7
DRUM FG	MA-62 BOARD IC501 (69)	I	L	L	L	∗5	∗5	∗8	∗8	∗8	∗8	∗8	∗8	∗8	∗8	∗8	∗8
CAP FG	MA-62 BOARD IC501 (70)	I	H/L	∗6	∗6	∗5	∗5	∗6	H/L	∗9	∗6	∗6	∗6	∗6	H/L	∗6	H/L
INDEX $\overline{\text{CS}}$	MA-62 BOARD IC501 (82)	O	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10	∗10
CAP RVS	MA-62 BOARD IC501 (72)	O	H	L	H	L	H	L	L	∗2	L	L	H	L	L	L	L
CAP DA ∗14	MA-62 BOARD IC501 (73)	O	∗11	L	L	∗11	∗11	∗12	∗11	∗11	∗12	∗12	∗12	∗12	∗11	∗12	∗11
DRUM DA ∗14	MA-62 BOARD IC501 (74)	O	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13	∗13
REC·$\overline{\text{P}}$	MA-62 BOARD IC501 ⑤	O	L	L	L	L	L	L	L	L	L	L	L	H	L	H	L
$\overline{\text{INSERT}}$	MA-62 BOARD IC501 ㊲	O	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H

∗ 1. 30Hz pulse.
∗ 2. Pulse when the tape runs.
∗ 3. Input terminal for capstan constant-voltage drive.
Used in the FF/REW mode and for cassette loading/unloading.
∗ 4. Input terminal for switching position adjustment.
∗ 5. Indefinite cycle pulse.
∗ 6. Cycle pulse proportional to a tape speed.
∗ 7. 30Hz "H" pulse.
∗ 8. 360Hz pulse.
∗ 9. Tape run time pulse.
∗ 10. 8 msec cycle pulse.
∗ 11. "H" or "L" pulse in a cycle of approx. 2 msec.
∗ 12. "H" or "L" pulse in a cycle of approx. 1.5 msec.
∗ 13. "H" or "L" pulse in a cycle of approx. 3 msec.
∗ 14. 3-value output of "H", "L" and HI-Z (2.5V).

3-7. SYSTEM CONTROL — MECHANISM BLOCK INTERFACE

Signal Name	Pin No.	I/O	HI-SPEED REW	EJECTED	CASSETTE LOADING	CASSETTE UNLOADING	TAPE LOADING	TAPE UNLOADING	STOP	FF	REW	PB	PB· PAUSE	SLOW	×2	CUE	REVIEW	REC	REC PAUSE
CAM ∗ 1	MA-62 BOARD IC501 ⑪	O	L	L	L	L	H	H	L	L	L	L	L	L	L	L	L	L	L
LOAD	MA-62 BOARD IC501 ⑬	O	L	L	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L
CW/CCW	MA-62 BOARD IC501 ⑫	O			H	L	H	L											
MODE 1	MA-62 BOARD IC501 (55)	I	H	L	L	L	H	H	L	H	H	H	L	L	H	H	H	H	L
MODE 2	MA-62 BOARD IC501 (54)	I	L	H	H	H	H	H	L	L	L	L	H	H	L	L	L	L	H
MODE 3	MA-62 BOARD IC501 (53)	I	H	H	H	H	L	L	L	L	L	H	H	H	H	H	L	H	H
MODE 4	MA-62 BOARD IC501 (52)	I	H	H	H	H	H	H	L	H	H	L	L	L	L	L	L	L	L
REC PRF	MA-62 BOARD IC501 ⑰	I	∗ 2	L	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2	∗ 2
C-UP/DOWN	MA-62 BOARD IC501 ⑱	I	L	H	H → L	H → L	L	L	L	L	L	L	L	L	L	L	L	L	L
T REEL	MA-62 BOARD IC501 (64)	I	∗ 3	H/L	H/L	H/L	H/L	H/L	H/L	∗ 3	∗ 3	∗ 3	H/L	∗ 3	∗ 3	∗ 3	∗ 3	∗ 3	H/L
S REEL	MA-62 BOARD IC501 (63)	I	∗ 3	H/L	H/L	H/L	∗ 3	∗ 3	H/L	∗ 3	∗ 3	∗ 3	H/L	∗ 3	∗ 3	∗ 3	∗ 3	∗ 3	H/L
LAMP	MA-62 BOARD IC501 (85)	O	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4	∗ 4
DEW	MA-62 BOARD IC501 (65)	I	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5	∗ 5
CAP V	MA-62 BOARD IC501 (59)	I	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6	∗ 6
CAP STOP	MA-62 BOARD IC501 (71)	O	L	H	H	H	L	L	H	L	L	L	H	H	L	L	L	L	H
CAP RVS	MA-62 BOARD IC501 (72)	O	H	H			L	H	H/L	L	H	L	L	L/∗9	L	L	H	L	L
CAP DA ∗ 8	MA-62 BOARD IC501 (73)	O																	
T SENS	MA-62 BOARD IC501 ㉑	I	∗ 7	∗ 4	∗ 4	∗ 4	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7
S SENS	MA-62 BOARD IC501 ㉒	I	∗ 7	∗ 4	∗ 4	∗ 4	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7	∗ 7

∗ 1. "H" when progressing to the MECHA mode.

∗ 2. "L" when a cassette erasure preventive finger is bent, and "H" when not bent.

∗ 3. Cycle pulse proportional to a reel speed.

∗ 4. "H" pulse in a cycle of approx. 2 msec.

∗ 5. Normally "H"

∗ 6. Input terminal for capstan constant-voltage drive.
Used in the FF/REW mode and for cassette loading/unloading.

∗ 7. Normally "L", "H" pulse in a cycle of 2 msec. when tape top or tape end is detected.

∗ 8. 3-value output of "H", "L" and HI-Z (2.5V).

∗ 9. Tape run pulse

3-8. SYSTEM CONTROL — SYSTEM CONTROL PERIPHERAL CIRCUIT INTERFACE

Signal Name	Pin No.	I/O	I/O LEVEL
$\overline{\text{COSMO·RESET}}$	MA-62 BOARD IC501 ㊵	I	Normally "H". Set to "L" when a power failure is detected or power is restored.
$\overline{\text{COSMO·CS}}$	MA-62 BOARD IC501 ㊹	I	Chip select signal from the timer microcomputer (MF-93 BOARD IC201). V-cycle "L" pulse.
SI·BUS	MA-62 BOARD IC501 ㊺	I	Serial communication data from the timer microcomputer. V-cycle "L" pulse.
SO·BUS	MA-62 BOARD IC501 ㊻	O	Serial communication data to the timer microcomputer. V-cycle "L" pulse.
S CLK	MA-62 BOARD IC501 ㊼	I	Serial communication clock from the timer microcomputer. V-cycle "L" pulse.
S IN 2	MA-62 BOARD IC501 (79)	I	Serial communication data from the INDEX IC (IC503). V-cycle "L" pulse.
S OUT 2	MA-62 BOARD IC501 (80)	O	Serial communication data to the INDEX IC. V-cycle "L" pulse.
S CLK 2	MA-62 BOARD IC501 (81)	I/O	Serial communication clock to/from the INDEX IC. V-cycle "L" pulse.
INDEX $\overline{\text{CS}}$	MA-62 BOARD IC501 (82)	O	Chip select signal to the INDEX IC (IC503). V-cycle "L" pulse.

3-9. SYSTEM CONTROL — AUDIO BLOCK INTERFACE

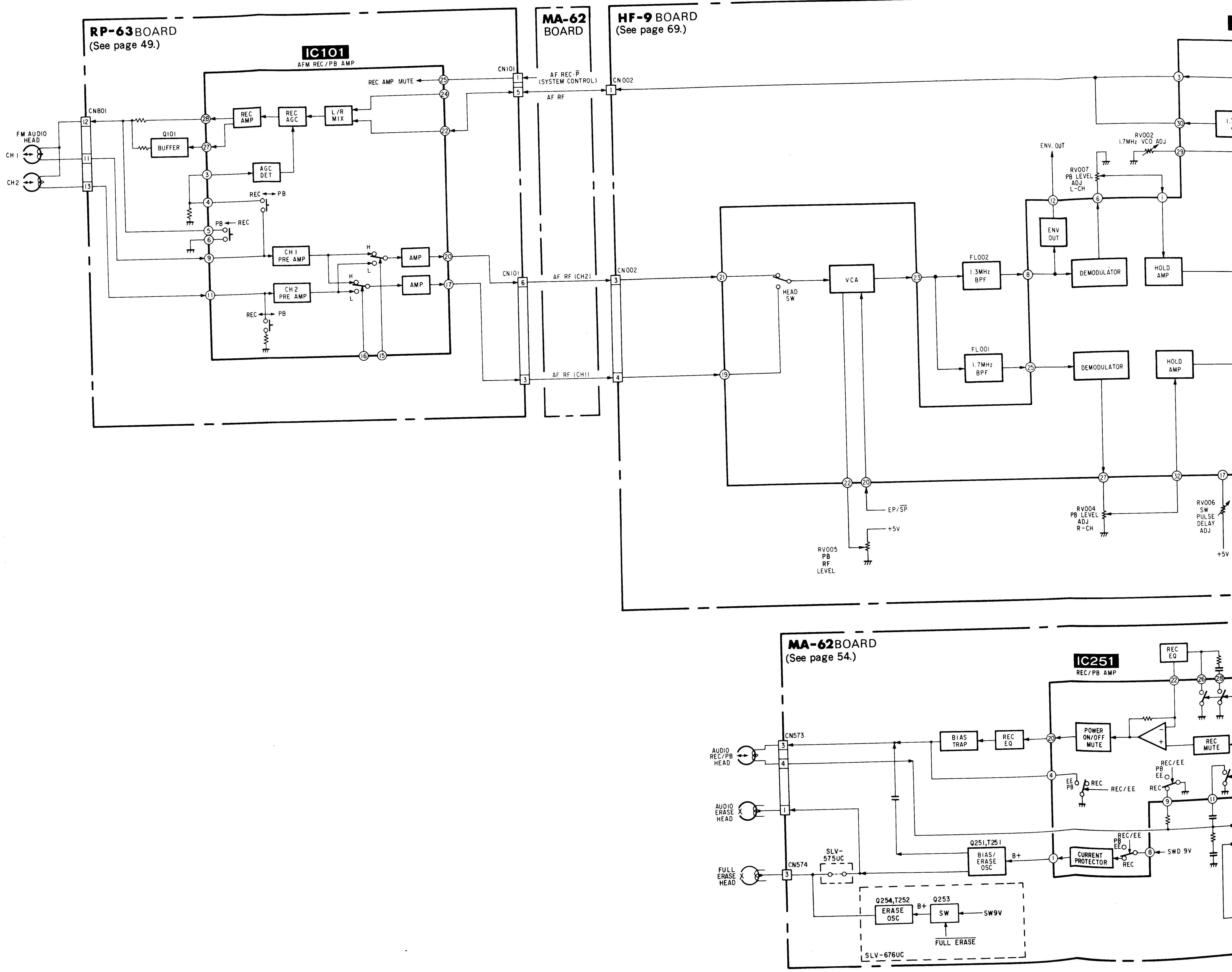
Signal Name	Pin No.	I/O	STOP/ FF/REW	TAPE LOADING	TAPE UNLOADING	PB	PB· PAUSE	SLOW	×2	CUE	REVIEW	REC	REC· PAUSE	INSERT	INSERT· PAUSE
$\overline{\text{AF PB}}$	MA-62 BOARD IC501 (96)	O	H	H	H	L	L	L	L	L	L	H	H	∗1	∗1
MONI (L)	MA-62 BOARD IC501 ⑩	O	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1
MONI (R)	MA-62 BOARD IC501 ⑨	O	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1	∗1
AF ENVELOP	MA-62 BOARD IC501(61)	I													
NA·PB	MA-62 BOARD IC501(95)	O	L	L	L	H	H	H	H	H	H	L	L	∗1	∗1
$\overline{\text{A MUTE}}$	MA-62 BOARD IC501 ㊳	O	L	L	L	∗1	H	H	H	H	H	L	L	L	L
EP	MA-62 BOARD IC501 (92)	O	∗2	∗2	∗2	∗3	∗3	∗3	∗3	∗3	∗3	∗2	∗2	∗3	∗3
REC·$\overline{\text{P}}$	MA-62 BOARD IC501 ⑤	O	L	L	L	L	L	L	L	L	L	H	L	H	L

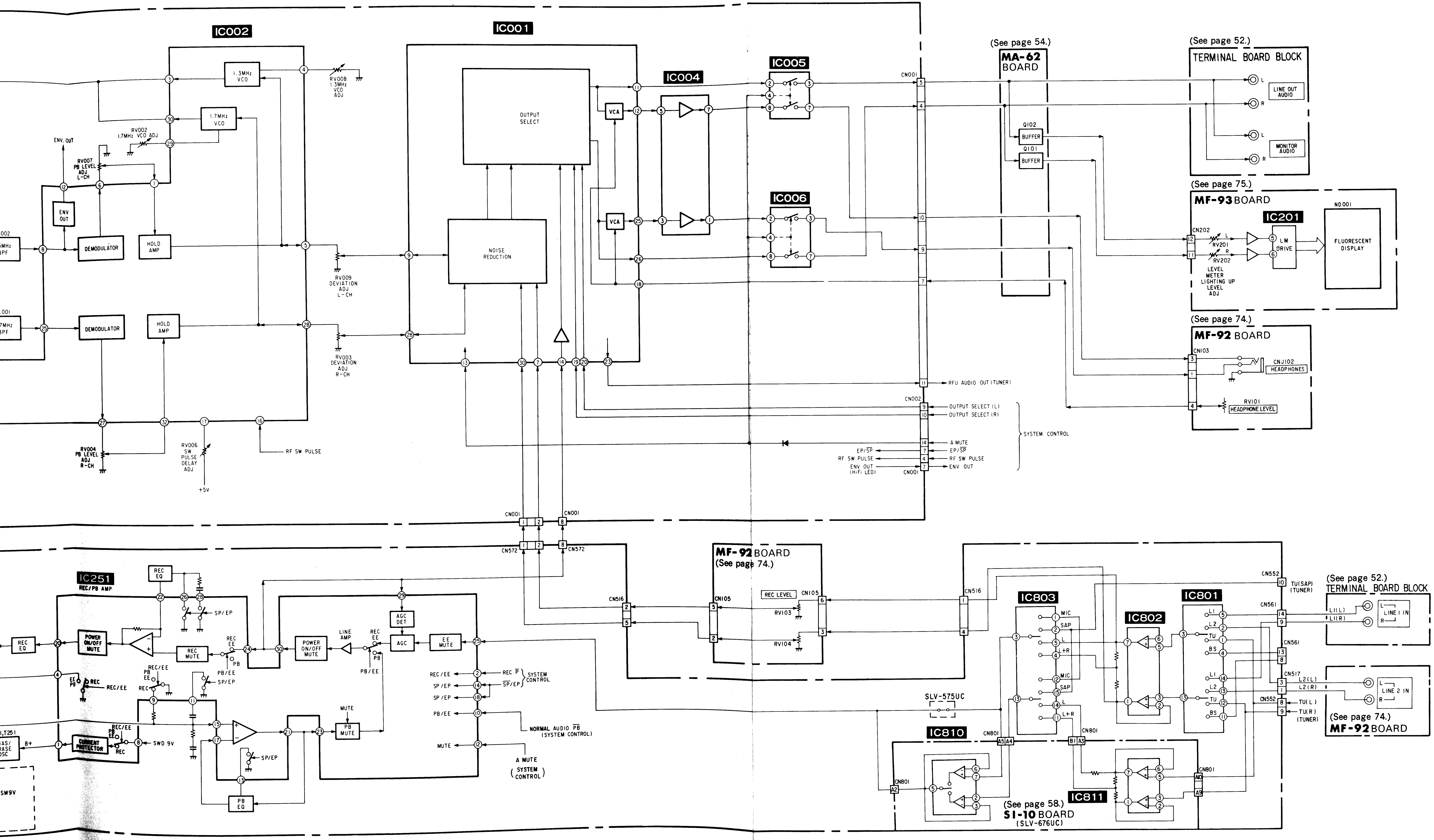
∗ 1. By Audio monitor

∗ 2. By SP/EP selector, "L" during SP mode, or "H" during EP mode.

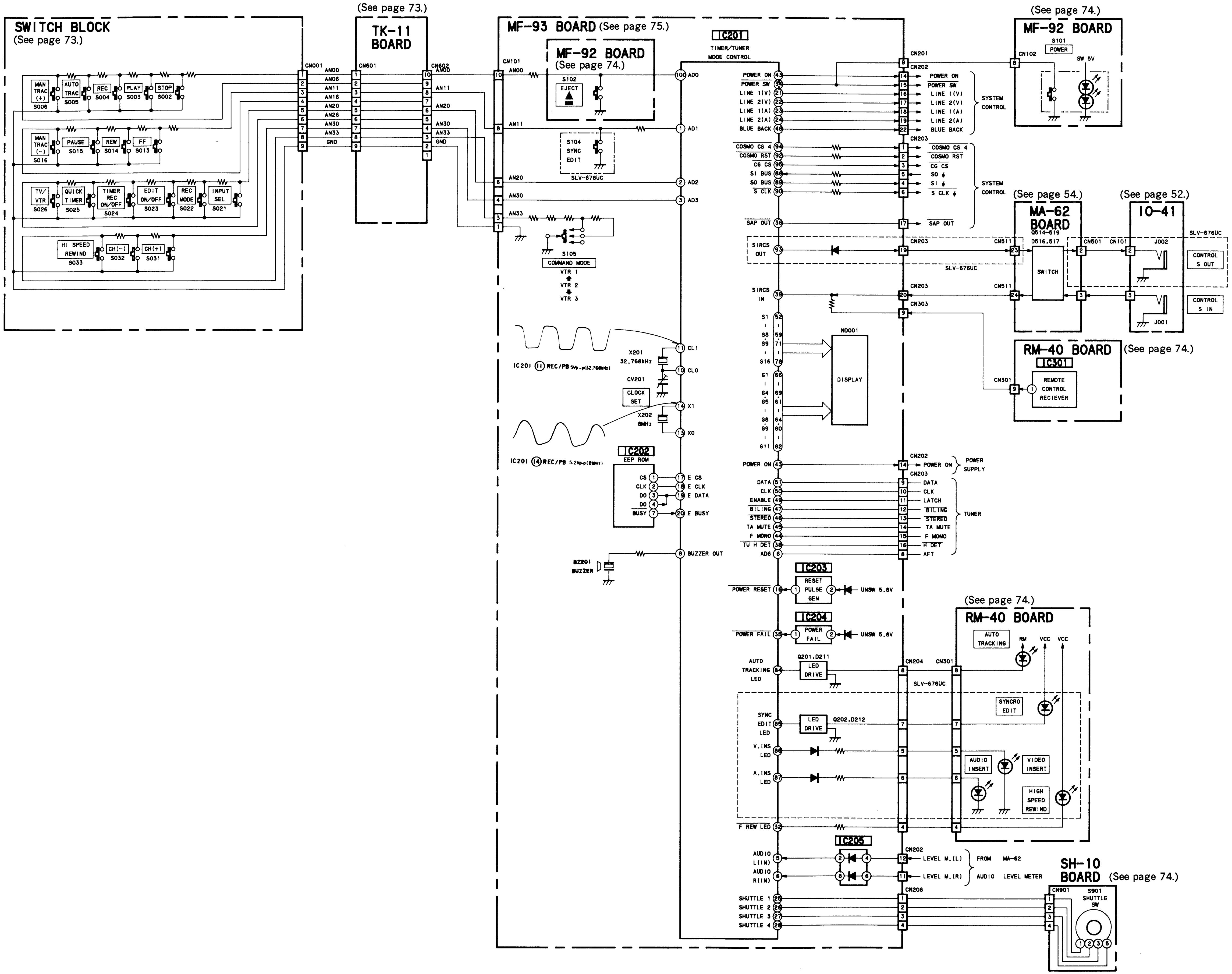
∗ 3. By the mode on the recorded tape, "L" when it is SP mode, or "H" when "EP" mode.

3-10. AUDIO BLOCK DIAGRAM

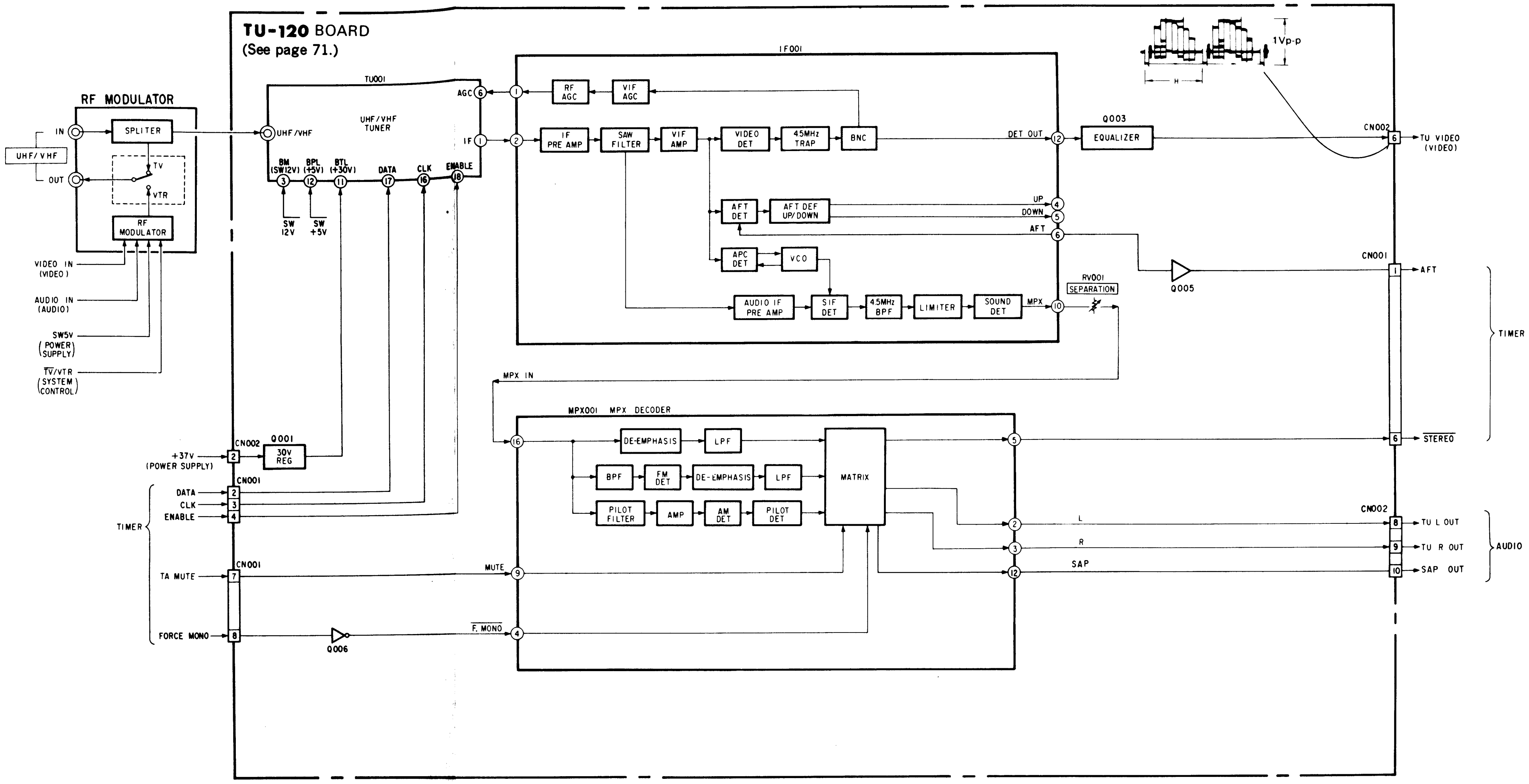

RP-63 BOARD
(See page 49.)
IC101
AFM REC/PB AMP
REC AMP MUTE
CN801
CN101
FM AUDIO HEAD
CH 1
CH 2
Q101
BUFFER
REC AMP
REC AGC
L/R MIX
AGC DET
REC ↔ PB
PB ← REC
CH 1 PRE AMP
CH 2 PRE AMP
AMP
H
L
MA-62 BOARD
AF REC·P (SYSTEM CONTROL)
AF RF
AF RF (CH2)
AF RF (CH1)
HF-9 BOARD
(See page 69.)
CN002
HEAD SW
VCA
FL002
1.3MHz BPF
FL001
1.7MHz BPF
ENV. OUT
ENV OUT
RV007 PB LEVEL ADJ L-CH
RV002 1.7MHz VCO ADJ
DEMODULATOR
HOLD AMP
EP/SP
+5V
RV005 PB RF LEVEL
RV004 PB LEVEL ADJ R-CH
RV006 SW PULSE DELAY ADJ
MA-62 BOARD
(See page 54.)
IC251
REC/PB AMP
REC EQ
CN573
AUDIO REC/PB HEAD
AUDIO ERASE HEAD
FULL ERASE HEAD
CN574
BIAS TRAP
POWER ON/OFF MUTE
REC MUTE
EE PB
REC
REC/EE
Q251,T251
BIAS/ERASE OSC
B+
CURRENT PROTECTOR
SWD 9V
SLV-575UC
Q254,T252
ERASE OSC
Q253
SW
SW9V
FULL ERASE
SLV-676UC


IC002
IC001
IC004
IC005
IC006
1.3MHz VCO
1.7MHz VCO
RV008 1.3MHz VCO ADJ
RV002 1.7MHz VCO ADJ
ENV. OUT
RV007 PB LEVEL ADJ L-CH
ENV OUT
DEMODULATOR
HOLD AMP
RV009 DEVIATION ADJ L-CH
RV003 DEVIATION ADJ R-CH
RV004 PB LEVEL ADJ R-CH
RV006 SW PULSE DELAY ADJ
+5V
RF SW PULSE
OUTPUT SELECT
NOISE REDUCTION
VCA
CN001
CN002
RFU AUDIO OUT (TUNER)
OUTPUT SELECT (L)
OUTPUT SELECT (R)
SYSTEM CONTROL
A MUTE
EP/SP
RF SW PULSE
ENV OUT
ENV OUT (HiFi LED)
(See page 54.)
MA-62 BOARD
Q102 BUFFER
Q101 BUFFER
(See page 52.)
TERMINAL BOARD BLOCK
LINE OUT AUDIO
MONITOR AUDIO
L
R
(See page 75.)
MF-93 BOARD
IC201
ND001
CN202
RV201
RV202
LEVEL METER LIGHTING UP LEVEL ADJ
LM DRIVE
FLUORESCENT DISPLAY
(See page 74.)
MF-92 BOARD
CN103
CNJ102 HEADPHONES
RV101 HEADPHONE LEVEL
CN572
IC251
REC/PB AMP
REC EQ
POWER ON/OFF MUTE
REC MUTE
SP/EP
REC EE PB
PB/EE
REC/EE
AGC DET
AGC
LINE AMP
EE MUTE
MUTE
PB MUTE
PB EQ
CURRENT PROTECTOR
SWD 9V
SW9V
B+
T251 BIAS/ERASE OSC
REC P
SYSTEM CONTROL
NORMAL AUDIO PB (SYSTEM CONTROL)
A MUTE (SYSTEM CONTROL)
CN516
MF-92 BOARD (See page 74.)
CN105
REC LEVEL
RV103
RV104
IC803
IC802
IC801
MIC
SAP
L+R
TU
BS
L1
L2
CN552
TU(SAP) (TUNER)
CN561
CN517
L2(L)
L2(R)
TU(L)
TU(R) (TUNER)
(See page 52.)
TERMINAL BOARD BLOCK
LINE 1 IN
L1(L)
L1(R)
LINE 2 IN
(See page 74.)
MF-92 BOARD
SLV-575UC
IC810
IC811
CN801
(See page 58.)
SI-10 BOARD (SLV-676UC)

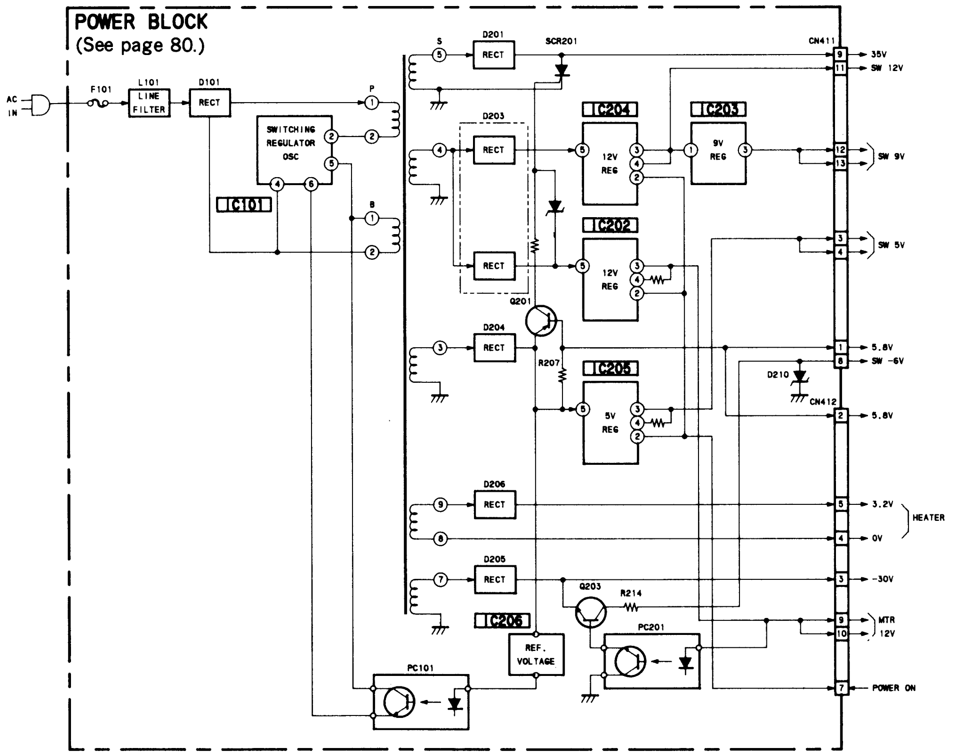
3-11. MODE CONTROL BLOCK DIAGRAM


SWITCH BLOCK
(See page 73.)
MAN TRAC (+) S006
AUTO TRAC S005
REC S004
PLAY S003
STOP S002
MAN TRAC (−) S016
PAUSE S015
REW S014
FF S013
TV/VTR S026
QUICK TIMER S025
TIMER REC ON/OFF S024
EDIT ON/OFF S023
REC MODE S022
INPUT SEL S021
HI SPEED REWIND S033
CH(−) S032
CH(+) S031
CN001
AN00
AN06
AN11
AN16
AN20
AN26
AN30
AN33
GND
(See page 73.)
TK-11 BOARD
CN601
CN602
MF-93 BOARD (See page 75.)
CN101
MF-92 BOARD
(See page 74.)
S102
EJECT
S104
SYNC
EDIT
SLV-676UC
S105
COMMAND MODE
VTR 1
VTR 2
VTR 3
IC201 ⑪ REC/PB 5Vp-p(32.768kHz)
IC201 ⑭ REC/PB 5.2Vp-p(8MHz)
X201
32.768kHz
CV201
CLOCK SET
X202
8MHz
IC202
EEP ROM
CS ①
CLK ②
DO ③
DO ④
BUSY ⑦
BZ201
BUZZER
IC201
TIMER/TUNER
MODE CONTROL
100 AD0
① AD1
② AD2
③ AD3
⑪ CL1
⑩ CL0
⑭ X1
⑬ X0
⑰ E CS
⑱ E CLK
⑲ E DATA
⑳ E BUSY
⑧ BUZZER OUT
POWER ON (43)
POWER SW (34)
LINE 1(V) ㉑
LINE 2(V) ㉒
LINE 1(A) ㉓
LINE 2(A) ㉔
BLUE BACK (48)
COSMO CS 4 (94)
COSMO RST (92)
CG CS (95)
SI BUS (88)
SO BUS (89)
S CLK (90)
SAP OUT (36)
SIRCS OUT (93)
SIRCS IN (39)
S1 (52)
S8 (59)
S9 (71)
S16 (78)
G1 (66)
G4 (69)
G5 (61)
G8 (64)
G9 (80)
G11 (82)
ND001
DISPLAY
POWER ON (43)
DATA (51)
CLK (50)
ENABLE (49)
BILING (47)
STEREO (46)
TA MUTE (45)
F MONO (44)
TU H DET (38)
AD6 ⑥
IC203
RESET PULSE GEN
POWER RESET ⑯
UNSW 5.8V
IC204
POWER FAIL
POWER FAIL (35)
UNSW 5.8V
AUTO TRACKING LED (84)
Q201,D211
LED DRIVE
SYNC EDIT LED (85)
LED DRIVE
Q202,D212
V.INS LED (86)
A.INS LED (87)
F REW LED (32)
IC205
AUDIO L(IN) ⑤
AUDIO R(IN) ⑥
SHUTTLE 1 ㉕
SHUTTLE 2 ㉖
SHUTTLE 3 ㉗
SHUTTLE 4 ㉘
CN201
CN202
POWER ON
POWER SW
LINE 1(V)
LINE 2(V)
LINE 1(A)
LINE 2(A)
BLUE BACK
SYSTEM CONTROL
CN203
COSMO CS 4
COSMO RST
CG CS
SO ϕ
SI ϕ
S CLK ϕ
SAP OUT
SYSTEM CONTROL
CN203
SLV-676UC
CN203
CN303
CN202
POWER ON
POWER SUPPLY
CN203
DATA
CLK
LATCH
BILING
STEREO
TA MUTE
F MONO
H DET
AFT
TUNER
CN204
CN301
SLV-676UC
CN202
LEVEL M.(L)
LEVEL M.(R)
FROM MA-62
AUDIO LEVEL METER
CN206
(See page 74.)
MF-92 BOARD
S101
POWER
CN102
SW 5V
(See page 54.)
MA-62 BOARD
Q514~519
D516,517
CN511
SWITCH
(See page 52.)
10-41
CN501
CN101
J002
J001
SLV-676UC
CONTROL S OUT
CONTROL S IN
RM-40 BOARD
(See page 74.)
IC301
CN301
REMOTE CONTROL RECIEVER
(See page 74.)
RM-40 BOARD
AUTO TRACKING
RM
VCC
VCC
SYNCRO EDIT
AUDIO INSERT
VIDEO INSERT
HIGH SPEED REWIND
SH-10 BOARD (See page 74.)
CN901
S901
SHUTTLE SW

3-12. TUNER BLOCK DIAGRAM

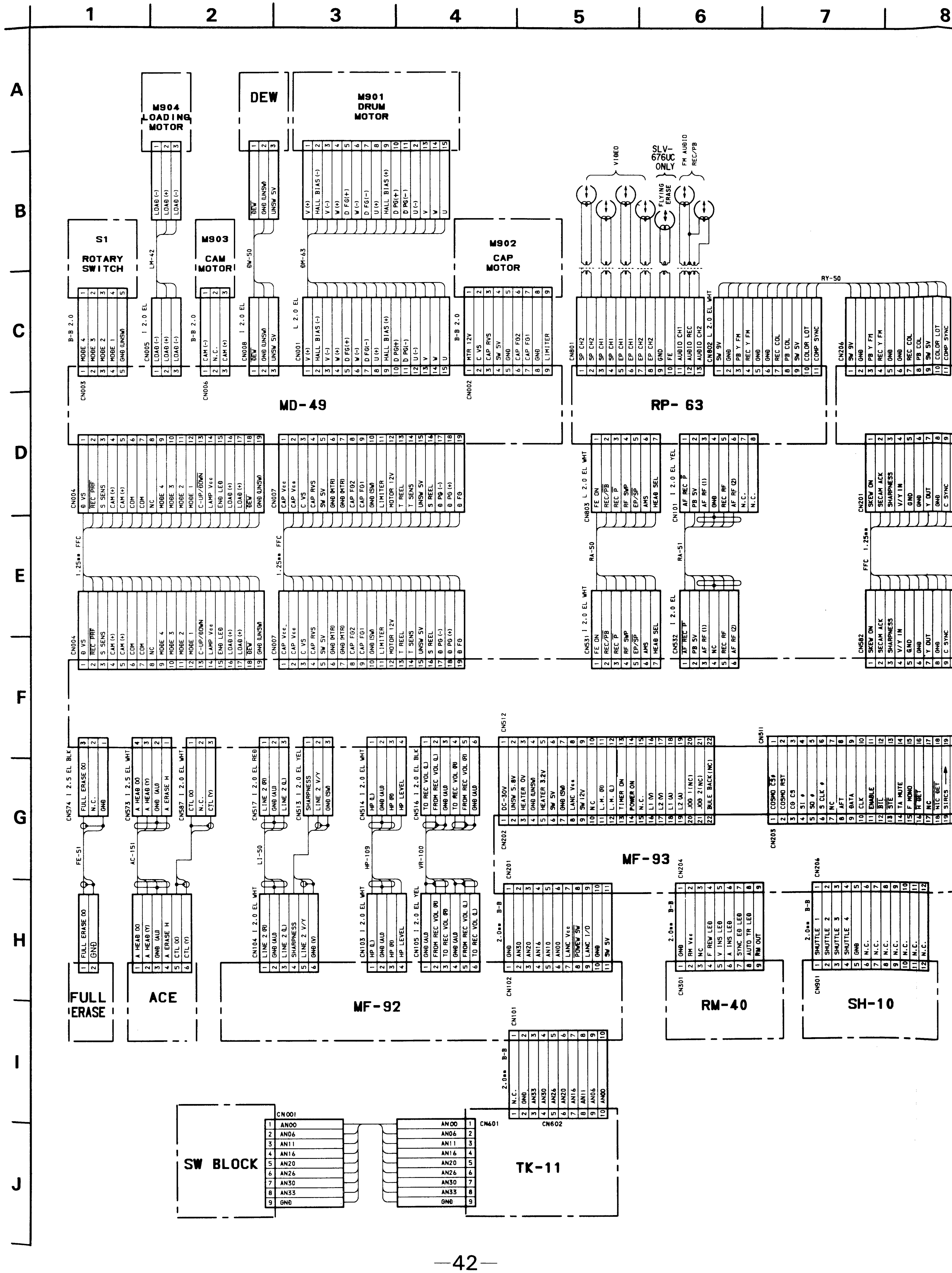

TU-120 BOARD
(See page 71.)
RF MODULATOR
IN
OUT
UHF/VHF
SPLITER
TV
VTR
RF MODULATOR
VIDEO IN (VIDEO)
AUDIO IN (AUDIO)
SW5V (POWER SUPPLY)
TV/VTR (SYSTEM CONTROL)
TU001
UHF/VHF TUNER
UHF/VHF
AGC
IF
BM (SW12V)
BPL (+5V)
BTL (+30V)
DATA
CLK
ENABLE
SW 12V
SW +5V
CN002
+37V (POWER SUPPLY)
Q001
30V REG
CN001
DATA
CLK
ENABLE
TIMER
TA MUTE
FORCE MONO
Q006
IF001
RF AGC
VIF AGC
IF PRE AMP
SAW FILTER
VIF AMP
VIDEO DET
4.5MHz TRAP
BNC
DET OUT
AFT DET
AFT DEF UP/DOWN
UP
DOWN
AFT
APC DET
VCO
AUDIO IF PRE AMP
SIF DET
4.5MHz BPF
LIMITER
SOUND DET
MPX
RV001
SEPARATION
MPX IN
MPX001 MPX DECODER
DE-EMPHASIS
LPF
BPF
FM DET
DE-EMPHASIS
LPF
PILOT FILTER
AMP
AM DET
PILOT DET
MATRIX
MUTE
F. MONO
L
R
SAP
Q003
EQUALIZER
1Vp-p
H
CN002
TU VIDEO (VIDEO)
Q005
CN001
AFT
STEREO
TIMER
CN002
TU L OUT
TU R OUT
SAP OUT
AUDIO

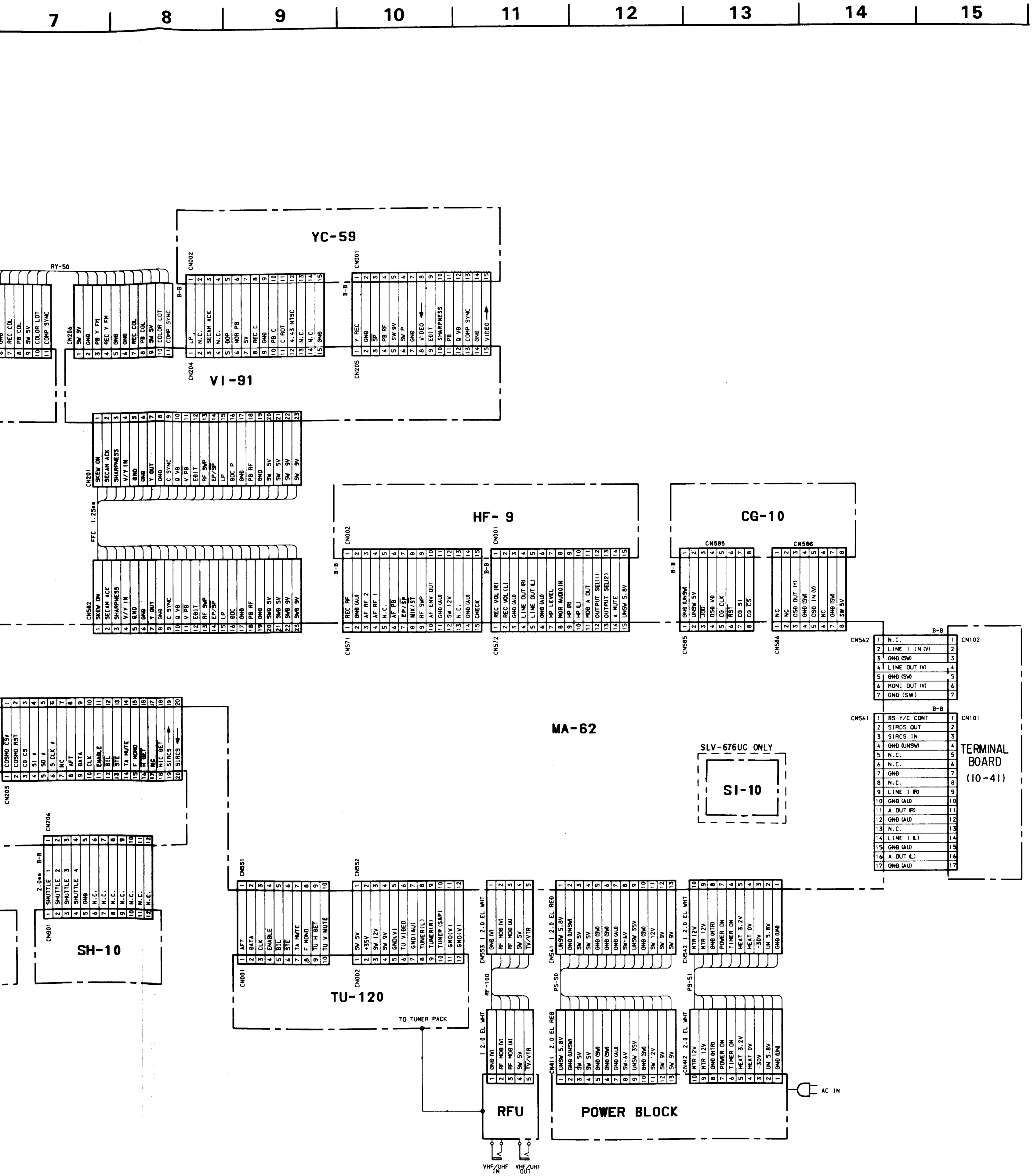
3-13. POWER BLOCK DIAGRAM


POWER BLOCK
(See page 80.)
AC IN
F101
L101
LINE FILTER
D101
RECT
SWITCHING REGULATOR OSC
IC101
P
B
S
D201
RECT
SCR201
D203
RECT
RECT
IC204
12V REG
IC203
9V REG
IC202
12V REG
Q201
D204
RECT
R207
IC205
5V REG
D206
RECT
D205
RECT
Q203
R214
IC206
REF. VOLTAGE
PC101
PC201
CN411
35V
SW 12V
SW 9V
SW 5V
5.8V
SW -6V
D210
CN412
5.8V
3.2V
0V
HEATER
-30V
MTR 12V
POWER ON

SECTION 4
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
M904
LOADING
MOTOR
DEW
M901
DRUM
MOTOR
S1
ROTARY
SWITCH
M903
CAM
MOTOR
M902
CAP
MOTOR
VIDEO
SLV-676UC ONLY
FLYING ERASE
FM AUDIO REC/PB
RY-50
LM-42
DW-50
DM-63
CN003
CN005
CN006
CN008
CN001
CN002
CN801
CN802
CN206
MD-49
RP- 63
CN004
CN007
CN803
CN101
CN201
RA-50
RA-51
1.25mm FFC
CN531
CN532
CN582
CN574
CN573
CN587
CN517
CN514
CN516
CN512
CN511
CN202
CN203
FE-51
AC-151
LI-50
HP-109
VR-100
MF-93
CN104
CN103
CN105
CN102
CN101
CN301
CN901
CN204
FULL
ERASE
ACE
MF-92
RM-40
SH-10
SW BLOCK
CN001
CN601
CN602
TK-11



4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is is printed in each block.)

● For printed wiring boards.

- ● : Through hole.
- ░ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side. *
- Circled numbers refer to waveforms. *

● For schematic diagram.

- Caution when replacing chip parts.
  New parts must be attached after removal of chip.
  Be careful not to heat the minus side of tantalum capacitor, because it is damaged by the heat.
- All resistors are in ohms, 1/4W unless otherwise noted.
- Chip resistor are 1/8W or 1/10W unless otherwise noted.
  kΩ: 1000Ω, MΩ: 1000kΩ.
- All capacitors are in μF unless otherwise noted. pF : μμF.
  50V or less are not indicated except for electrolytics and tantalums.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- ☐ : panel designation.
- △ : internal component.
- ☐ : adjustment for repair. *
- ━━ : B + Line *
- ━ ━ : B − Line. *
- ⇨ : IN/OUT direction of (+, −) B line. *
- Circled numbers refer to waveforms. *
- Voltages are dc between ground and measurement points. *
- Readings are taken with a color-bar signal input. *
- Readings are taken with a digital multimeter (DC10MΩ). *
- Voltage variations may be noted due to normal production tolerances. *

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

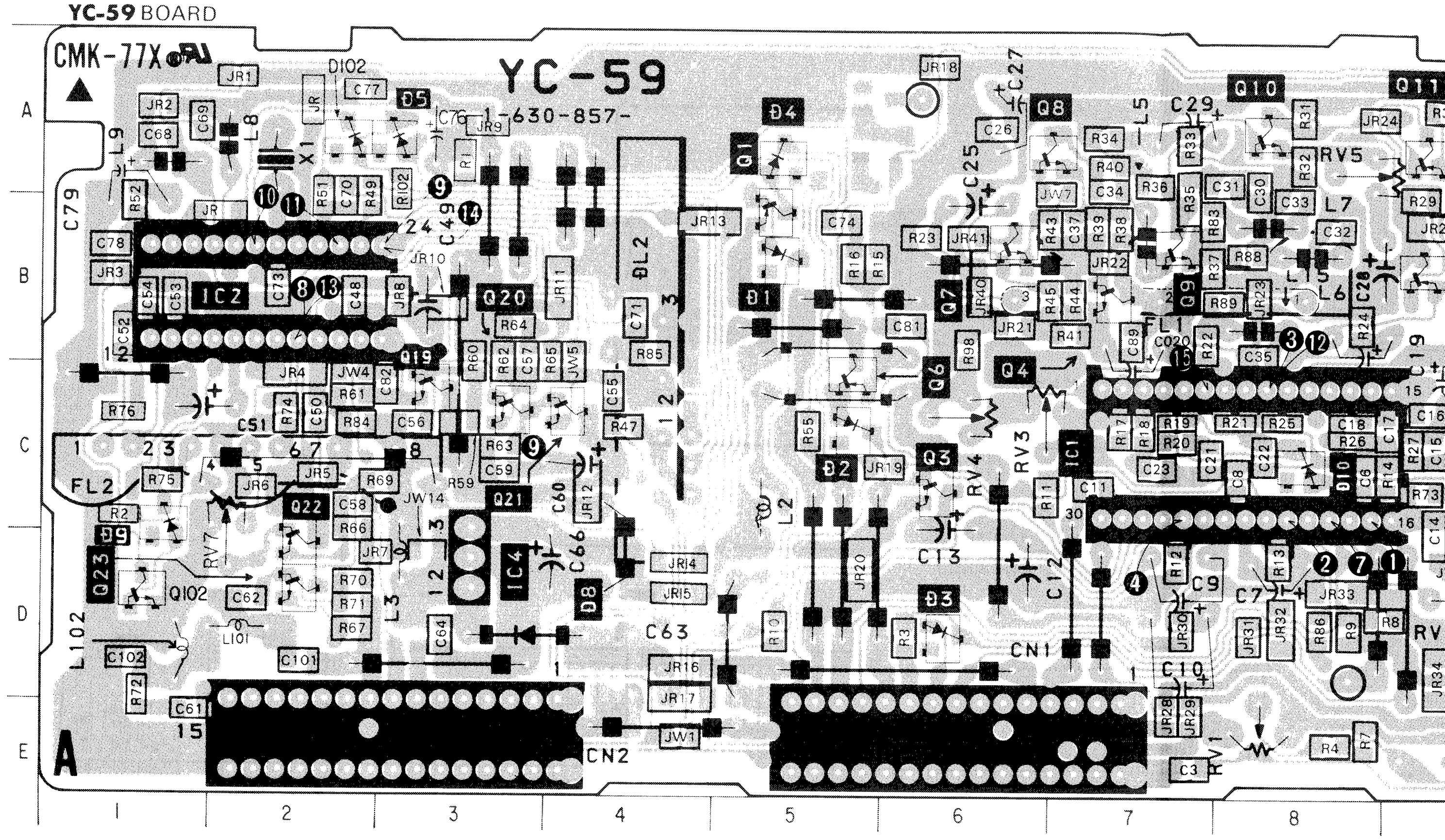
When indicating parts by reference number, please include the board name.

* : indicated by the color red.

CG-10 (ON SCREEN DISPLAY), RP-63 (REC/PB HEAD AMP), VI-91 (RELAY), YC-59 (VIDEO PROCESS), TERMINAL BOARD (IN/OUT) PRI
—Ref. No. CG-10, VI-91 and YC-59 BOARDS : 1000 series, RP-63 BOARD : 2000 series—

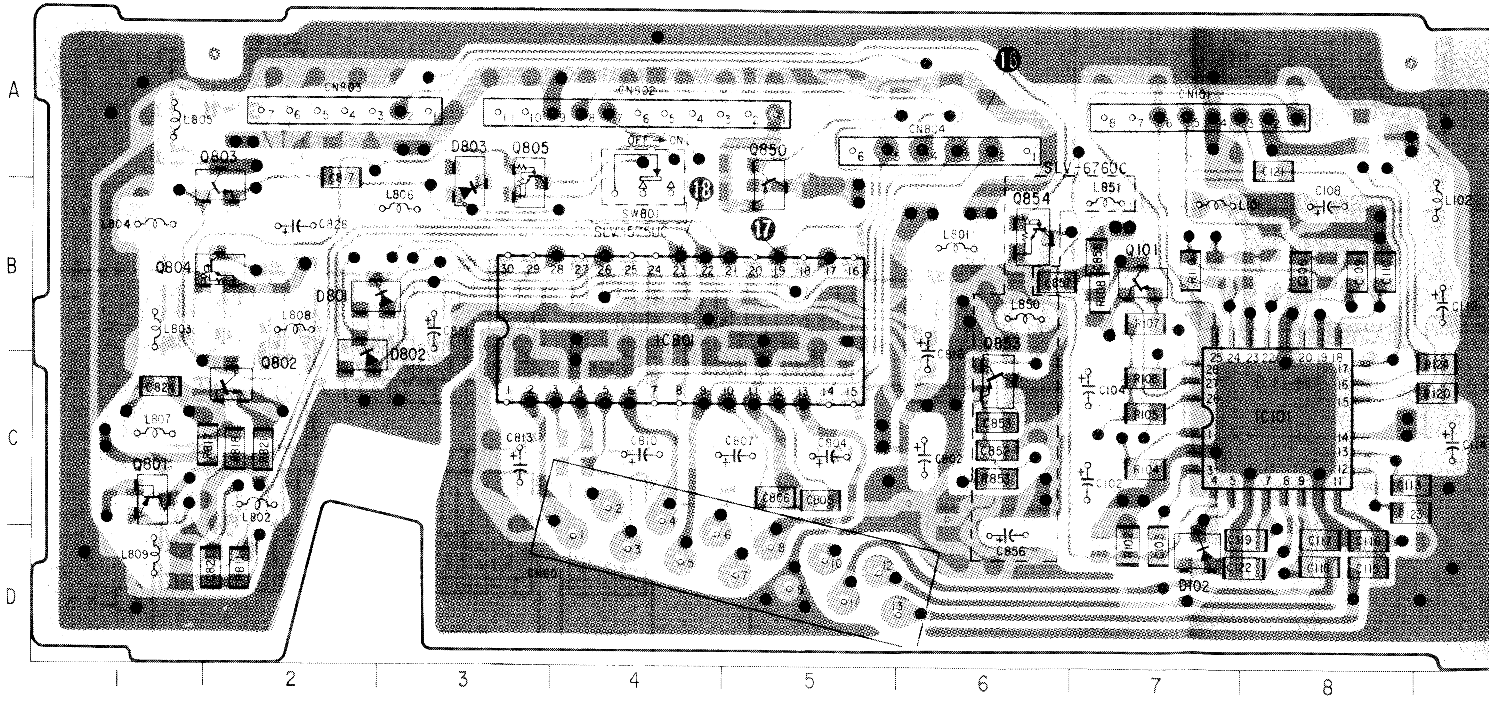
D001	B-5
D002	C-5
D003	D-6
D004	A-5
D005	A-3
D008	D-3
D009	C-1
D010	C-8
D102	A-2
Q001	B-5
Q002	E-10
Q003	C-6
Q004	B-7
Q005	A-10
Q006	C-5
Q007	B-6
Q008	A-6
Q009	B-7
Q010	A-8
Q011	A-9
Q012	B-9
Q015	B-10
Q019	C-3
Q020	C-3
Q021	C-4
Q022	D-2
Q023	D-2
Q102	D-1
IC001	C-8
IC002	B-2
IC003	B-10
IC004	D-3

YC-59 BOARD

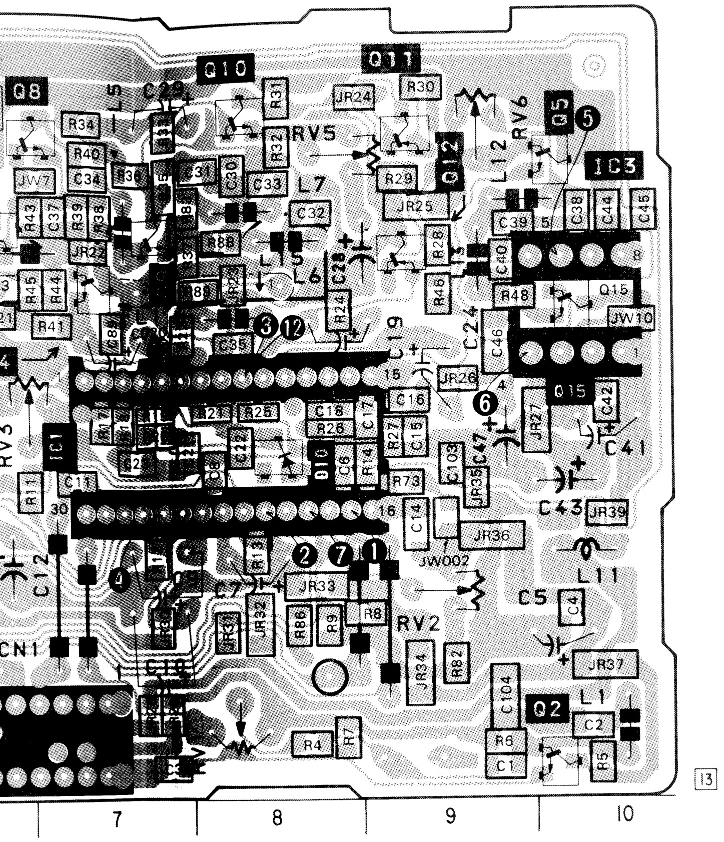

CMK-77X
YC-59
1-630-857-
IC1
IC2
IC4
CN1
CN2
FL1
FL2
DL2
RV1
RV3
RV4
RV5
RV7
A
B
C
D
E
1
2
3
4
5
6
7
8

D102	D-7
D801	B-2
D802	B-3
D803	A-3
IC101	C-8
IC801	B-4
Q101	B-7
Q801	C-1
Q802	C-2
Q803	A-2
Q804	B-2
Q805	A-3
Q806	A-13
Q850	A-5
Q851	A-13
Q852	C-13
Q853	C-6
Q854	B-6

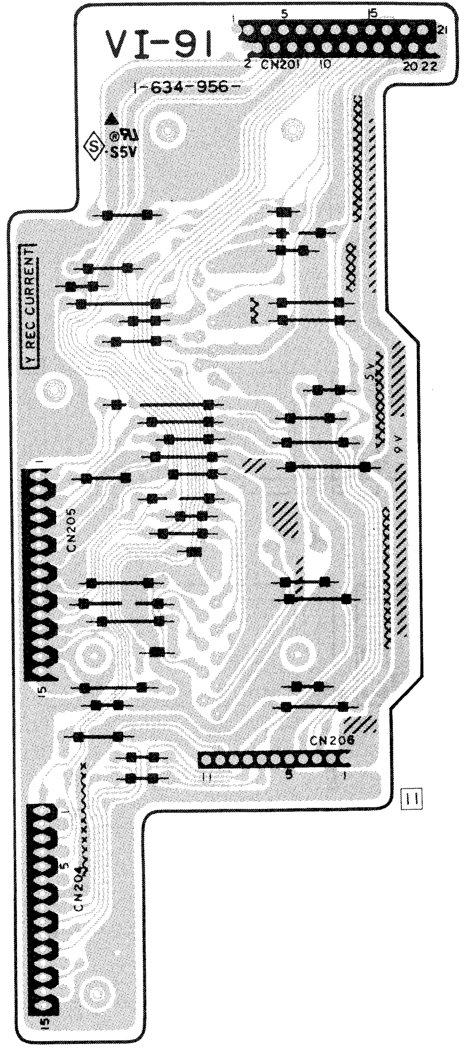
RP-63BOARD (COMPONENT SIDE)


CN803
CN802
CN804
CN101
CN801
IC801
IC101
SW801
SLV-676UC
SLV-575UC
Q801
Q802
Q803
Q804
Q805
Q850
Q853
Q854
Q101
D801
D802
D803
D102
A
B
C
D
1
2
3
4
5
6
7
8

S), TERMINAL BOARD (IN/OUT) PRINTED WIRING BOARDS

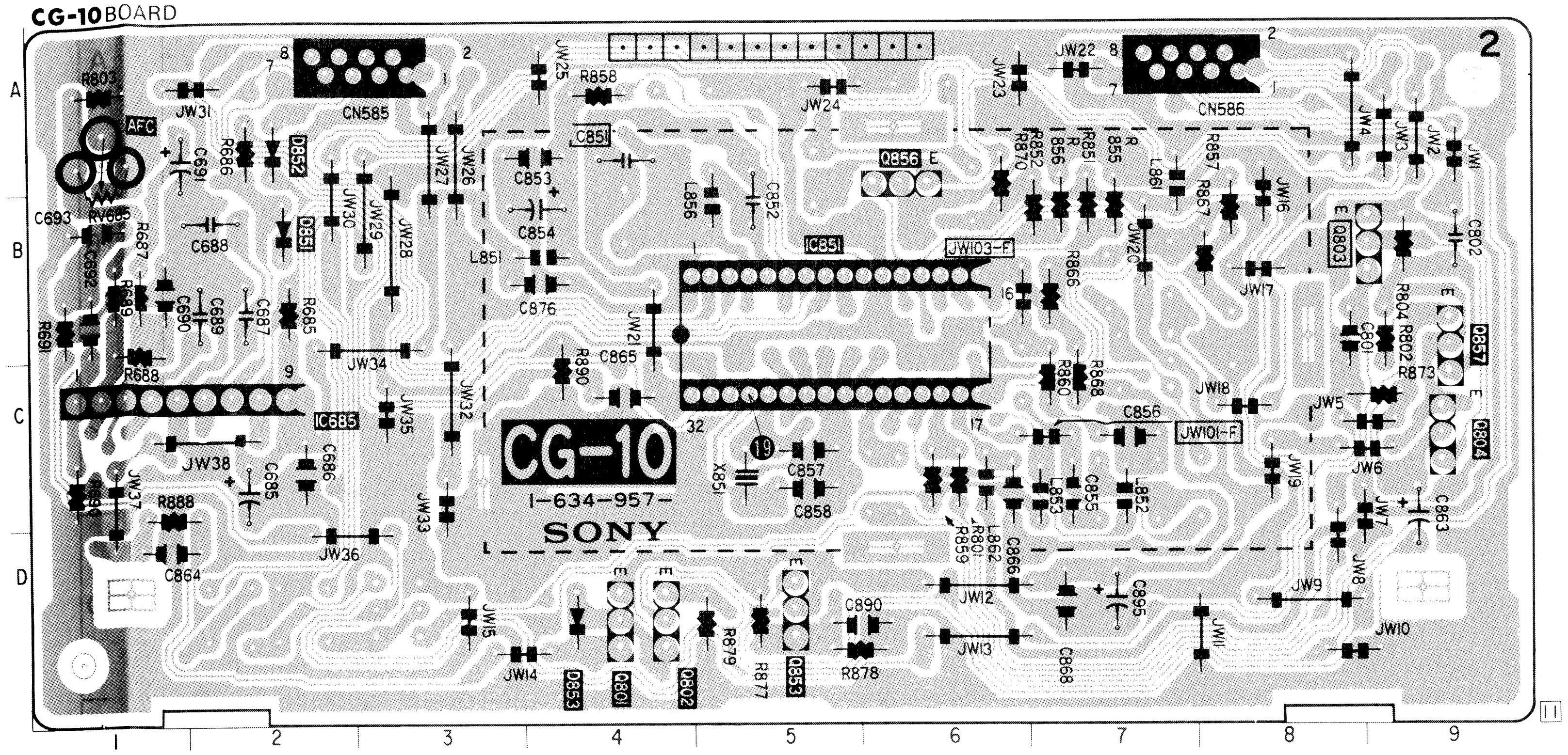


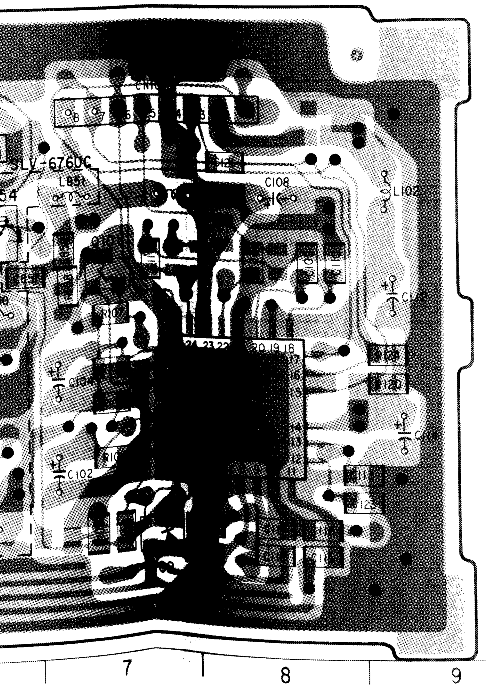
VI-91 BOARD


VI-91
1-634-956-
CN201
CN205
CN204
CN206
Y REC CURRENT
S5V

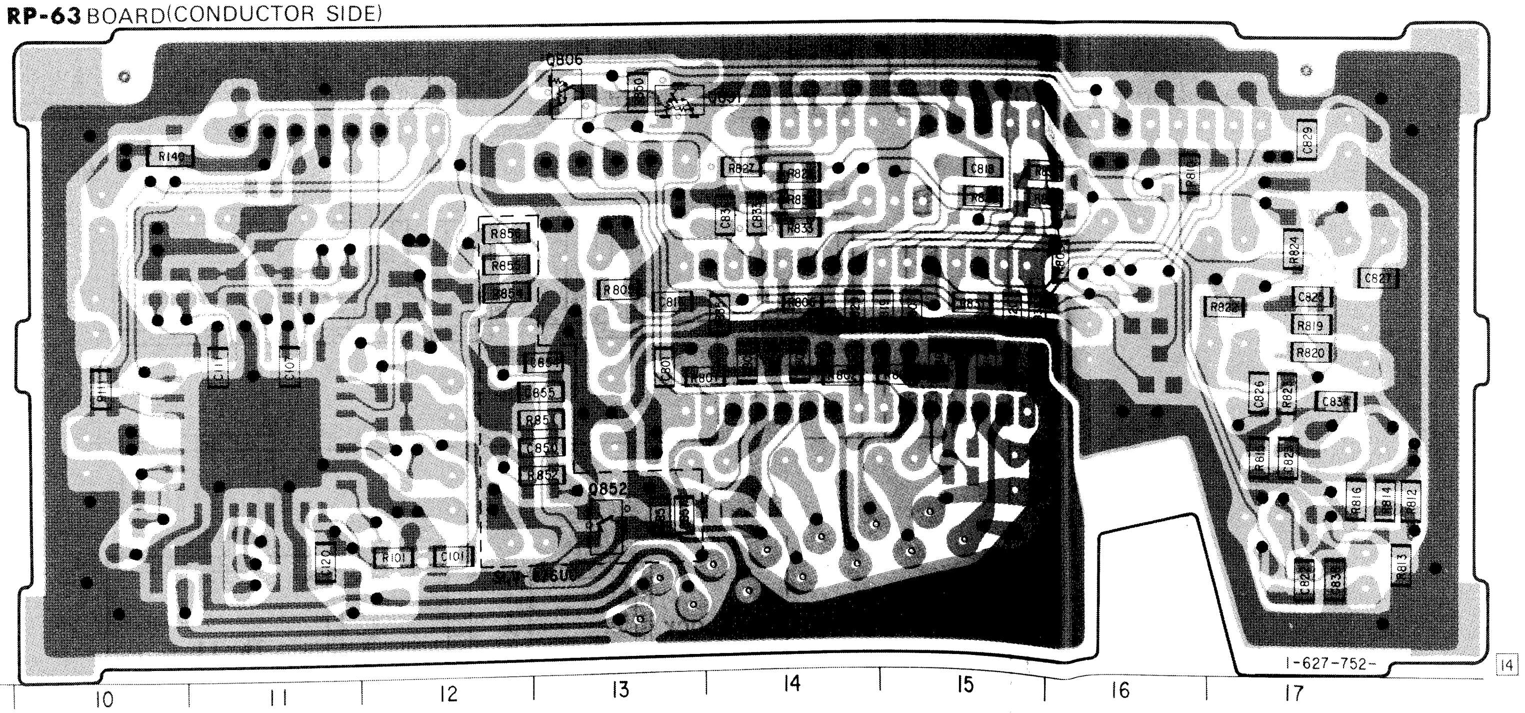
D851	B-2
D852	A-2
D853	D-4
IC685	C-2
IC851	B-5
Q801	D-4
Q802	D-4
Q803	B-8
Q804	C-9
Q853	D-5
Q856	A-6
Q857	B-9

CG-10 BOARD

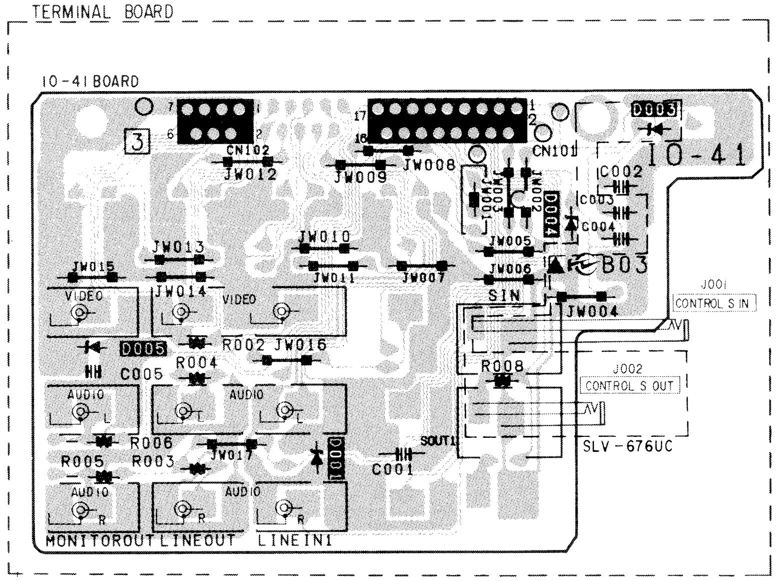

CG-10
1-634-957-
SONY
CN585
CN586
IC851
IC685
AFC



RP-63 BOARD(CONDUCTOR SIDE)

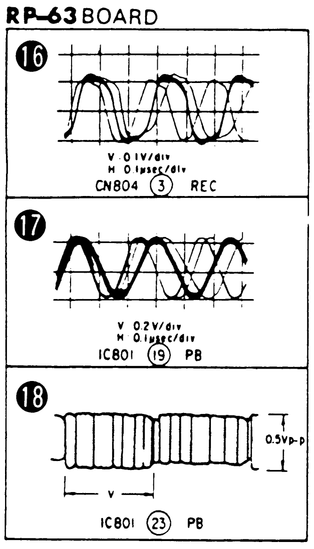


TERMINAL BOARD

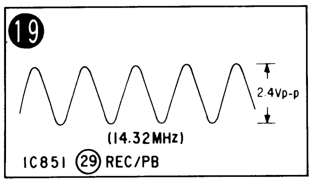

10-41 BOARD
10-41
CN102
CN101
MONITOROUT
LINEOUT
LINEIN1
CONTROL S IN
CONTROL S OUT
SLV-676UC

—Ref. No. CG-10, VI-91 and YC-59 BOARDS : 1000 series, RP-63 BOARD : 2000 series—

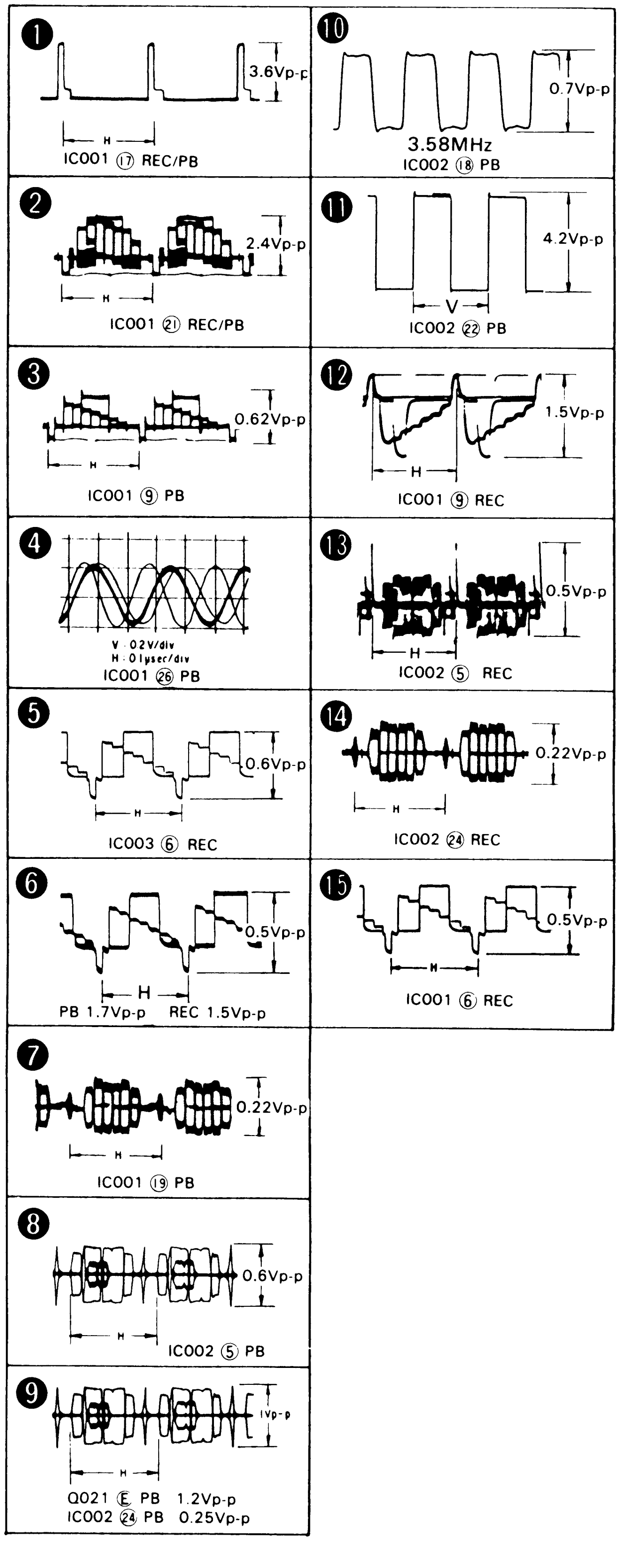
RP-63 BOARD

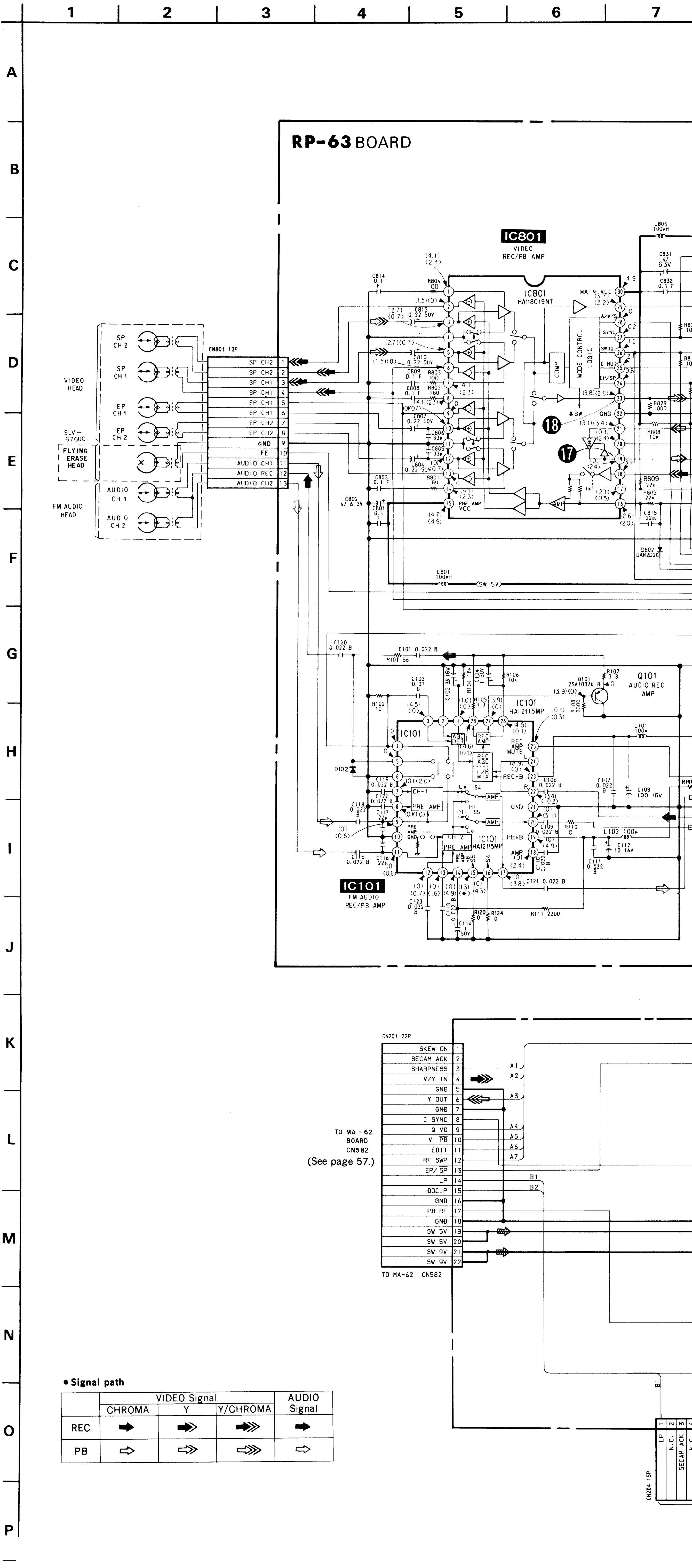


CG-10 BOARD



YC-59 BOARD

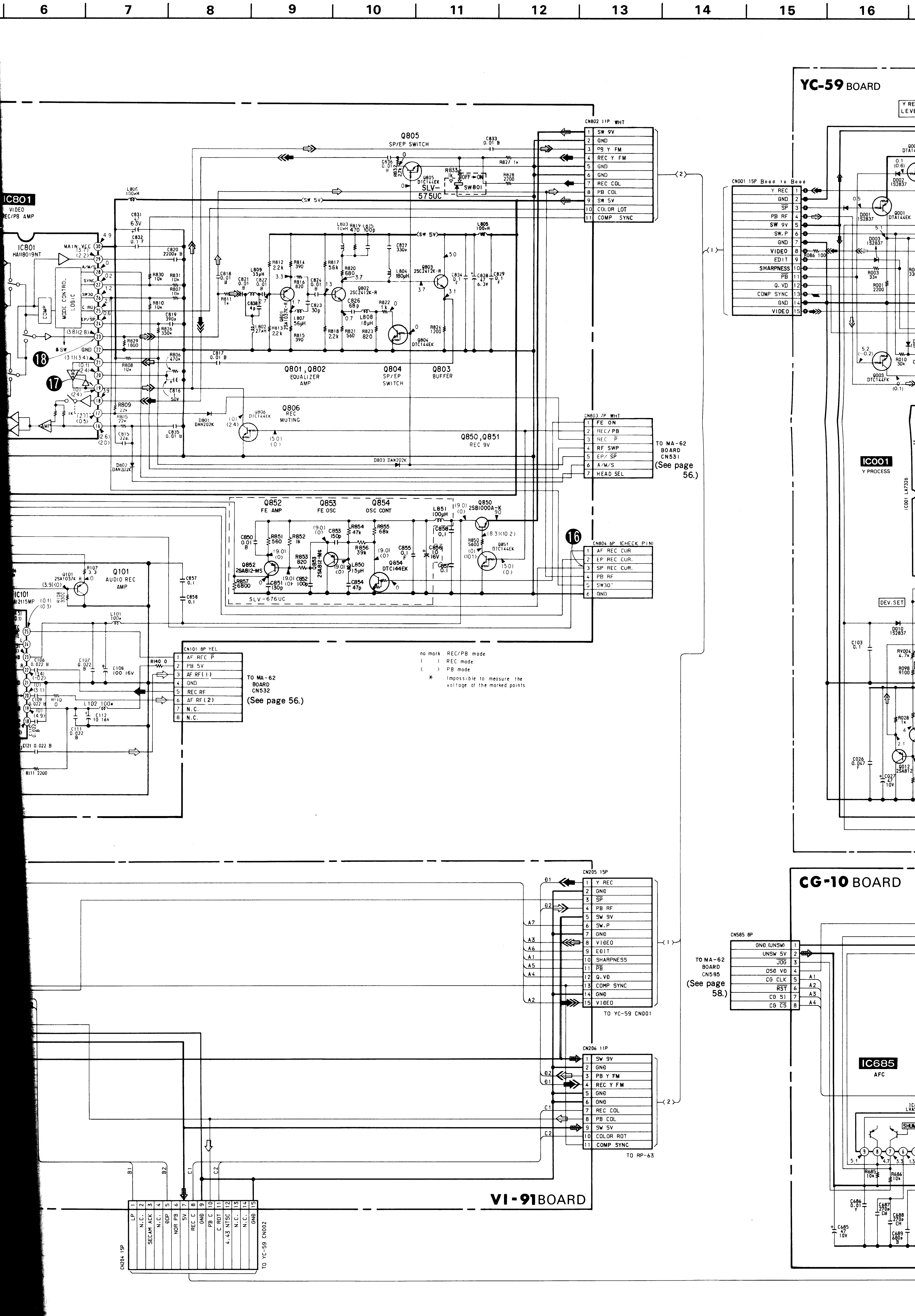


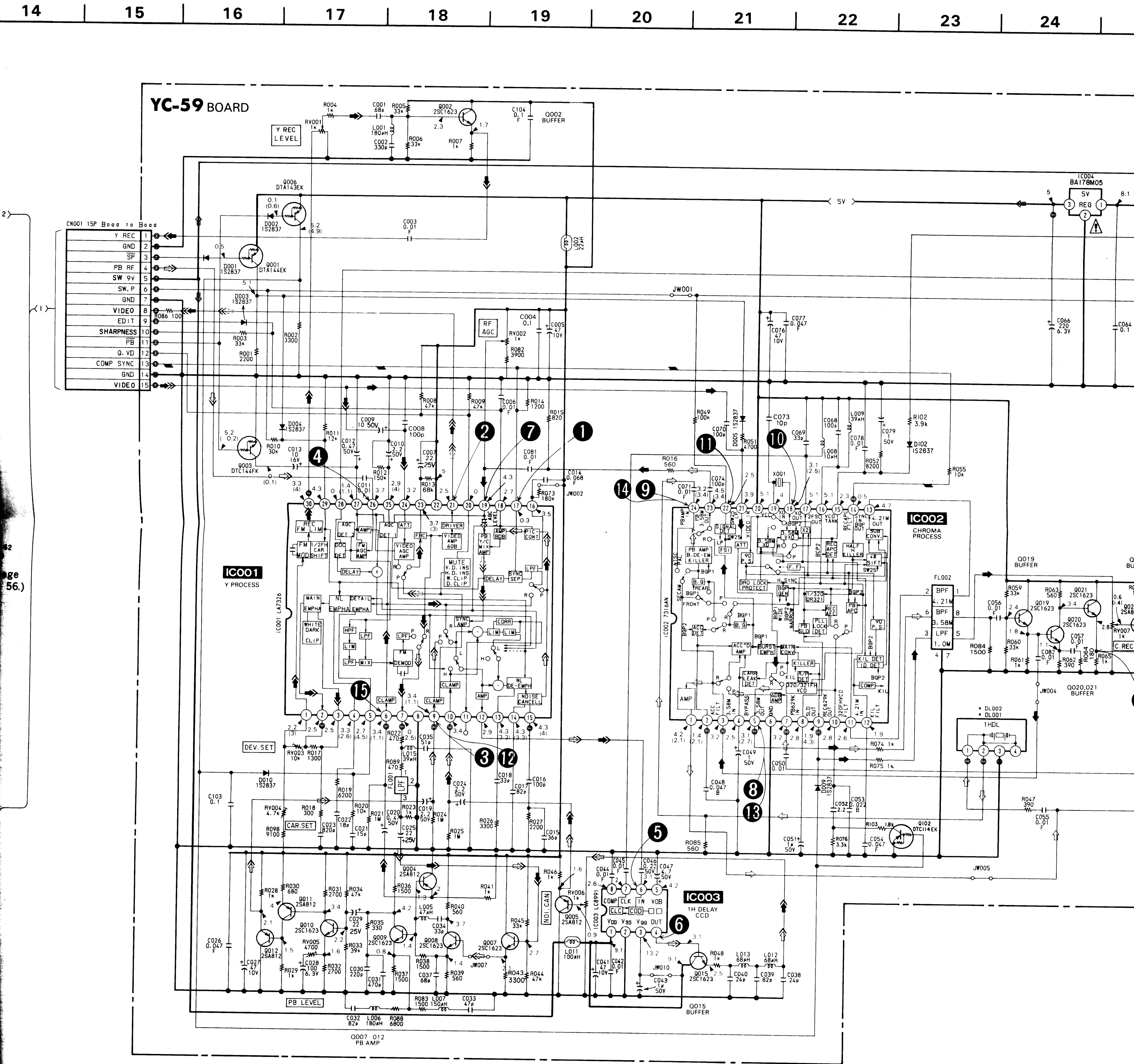

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
RP-63 BOARD
IC801
VIDEO REC/PB AMP
IC801 HA118019NT
MAIN VCC
SYNC
MODE CONTROL LOGIC
COMP
GND
PRE AMP VCC
CN801 13P
SP CH2
SP CH2
SP CH1
SP CH1
EP CH1
EP CH1
EP CH2
EP CH2
GND
FE
AUDIO CH1
AUDIO REC
AUDIO CH2
VIDEO HEAD
SP CH 2
SP CH 1
EP CH 1
EP CH 2
SLV-676UC
FLYING ERASE HEAD
FM AUDIO HEAD
AUDIO CH 1
AUDIO CH 2
L801 100μH
SW 5V
L806 100μH
D802 DAN202K
Q101 2SA1037K
AUDIO REC AMP
IC101 HA12115MP
IC101
FM AUDIO REC/PB AMP
AGC DET
REC AMP
REC AGC
L/R MIX
REC AMP MUTE
CH-1 PRE AMP
CH-2 PRE AMP
L101 100μ
L102 100μ
CN201 22P
SKEW ON
SECAM ACK
SHARPNESS
V/Y IN
GND
Y OUT
GND
C SYNC
Q V0
V PB
EDIT
RF SWP
EP/SP
LP
DOC.P
GND
PB RF
GND
SW 5V
SW 5V
SW 9V
SW 9V
TO MA-62 BOARD CN582
(See page 57.)
TO MA-62 CN582
A1
A2
A3
A4
A5
A6
A7
B1
B2
CN204 15P
LP
N.C.
SECAM ACK

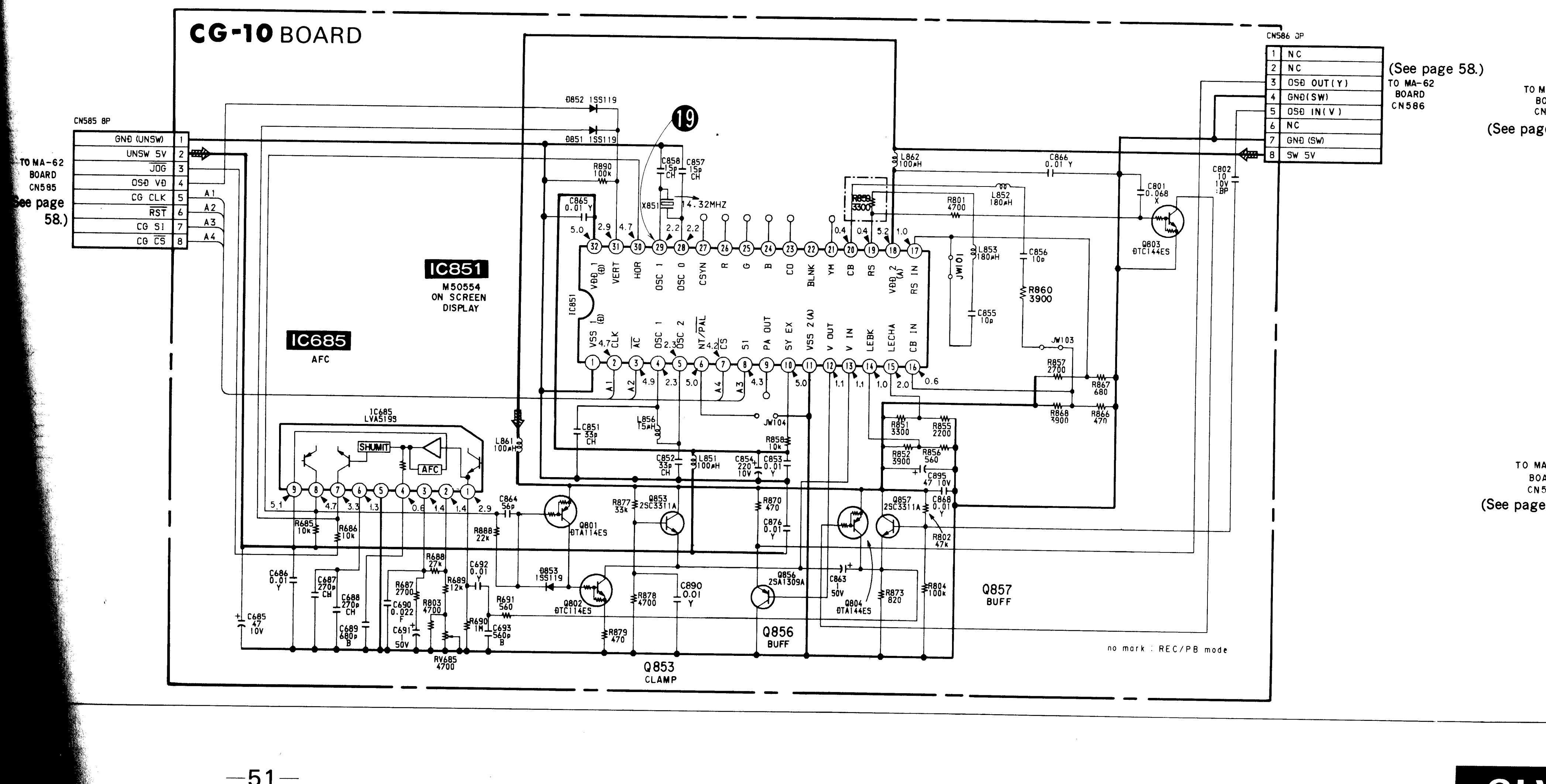
• Signal path

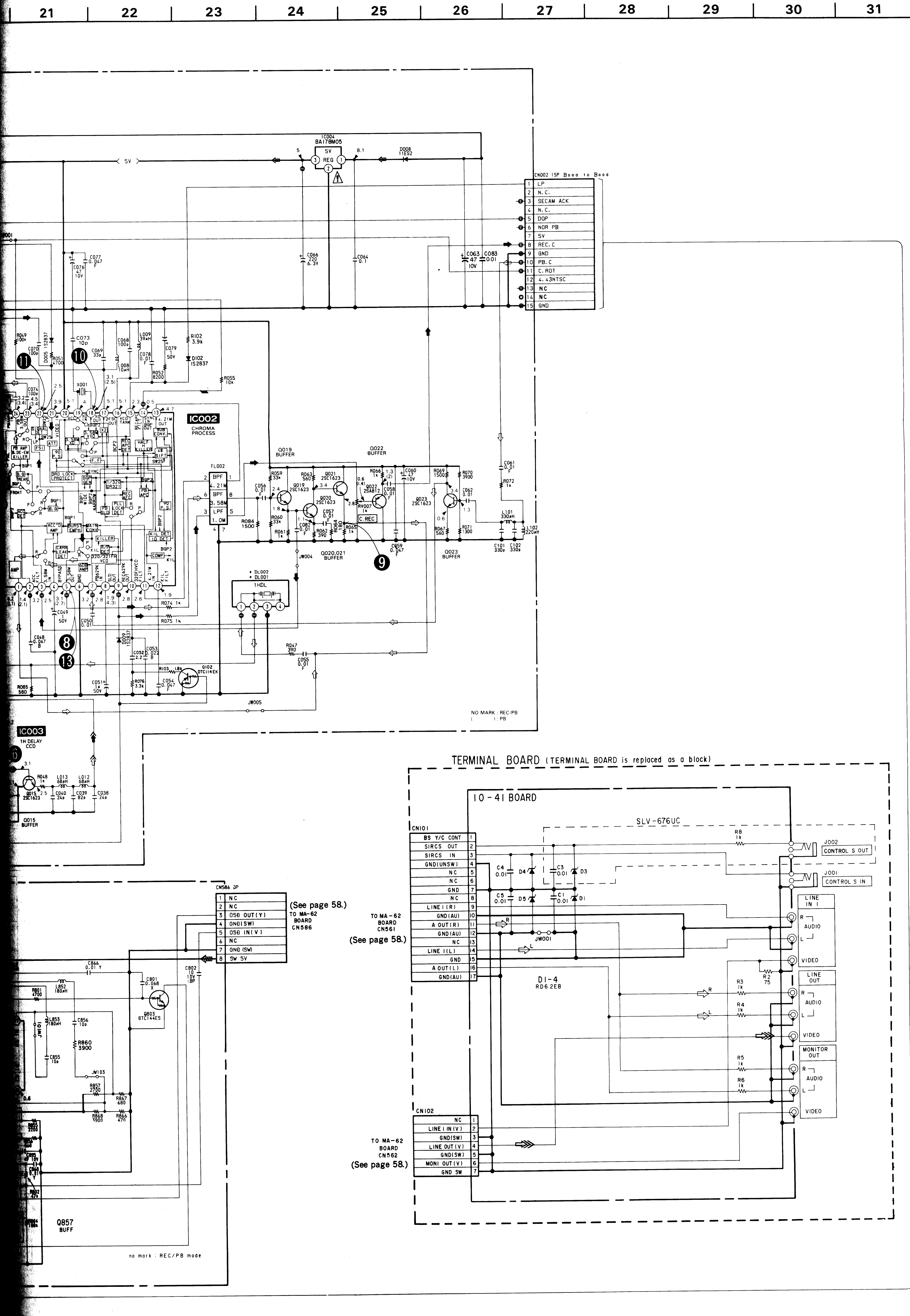
	VIDEO Signal			AUDIO Signal
	CHROMA	Y	Y/CHROMA	
REC	➡	➡➡	➡➡➡	➡
PB	⇨	⇨⇨	⇨⇨⇨	⇨

YC-59 (VIDEO PROCESS), TERMINAL BOARD (IN/OUT) SCHEMATIC DIAGRAM

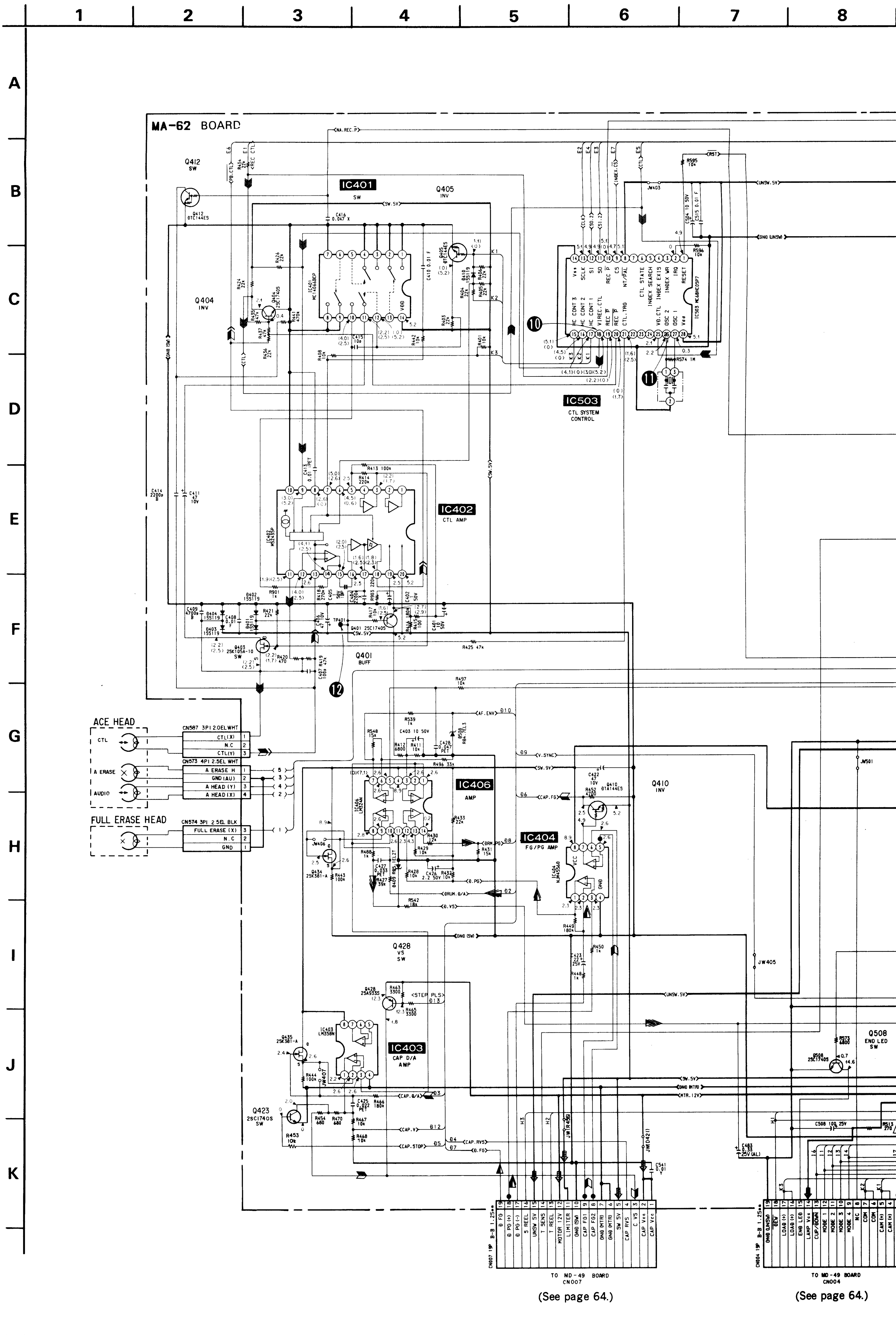

6
7
8
9
10
11
12
13
14
15
16
IC801 VIDEO REC/PB AMP
IC801 HA118019NT
MAIN VCC
MODE CONTROL LOGIC
COMP
Q805 SP/EP SWITCH
SLV-575UC
SW801
OFF ON
Q801,Q802 EQUALIZER AMP
Q804 SP/EP SWITCH
Q803 BUFFER
Q806 REC MUTING
Q850,Q851 REC 9V
Q852 FE AMP
Q853 FE OSC
Q854 OSC CONT
SLV-676UC
Q850 2SB1000A-K
Q101 AUDIO REC AMP
IC101
CN802 11P WHT
1 SW 9V
2 GND
3 PB Y FM
4 REC Y FM
5 GND
6 GND
7 REC COL
8 PB COL
9 SW 5V
10 COLOR LOT
11 COMP SYNC
CN803 7P WHT
1 FE ON
2 REC/PB
3 REC P
4 RF SWP
5 EP/SP
6 A/M/S
7 HEAD SEL
TO MA-62 BOARD CN531 (See page 56.)
CN804 6P (CHECK PIN)
1 AF REC CUR
2 EP REC CUR.
3 SP REC CUR.
4 PB RF
5 SW30'
6 GND
CN101 8P YEL
1 AF REC P
2 PB 5V
3 AF RF(1)
4 GND
5 REC RF
6 AF RF(2)
7 N.C.
8 N.C.
TO MA-62 BOARD CN532 (See page 56.)
no mark : REC/PB mode
( ) REC mode
( ) PB mode
* Impossible to measure the voltage at the marked points
CN205 15P
1 Y REC
2 GND
3 SP
4 PB RF
5 SW 9V
6 SW.P
7 GND
8 VIDEO
9 EDIT
10 SHARPNESS
11 PB
12 Q.VD
13 COMP SYNC
14 GND
15 VIDEO
TO YC-59 CN001
CN206 11P
1 SW 9V
2 GND
3 PB Y FM
4 REC Y FM
5 GND
6 GND
7 REC COL
8 PB COL
9 SW 5V
10 COLOR ROT
11 COMP SYNC
TO RP-63
VI-91 BOARD
CN204 15P
1 LP
2 N.C.
3 SECAM ACK
4 N.C.
5 BOP
6 NOR PB
7 5V
8 REC C
9 GND
10 PB C
11 C ROT
12 4.43 NTSC
13 N.C.
14 N.C.
15 GND
TO YC-59 CN002
YC-59 BOARD
CN001 15P Board to Board
1 Y REC
2 GND
3 SP
4 PB RF
5 SW 9V
6 SW.P
7 GND
8 VIDEO
9 EDIT
10 SHARPNESS
11 PB
12 Q.VD
13 COMP SYNC
14 GND
15 VIDEO
IC001 Y PROCESS
IC001 LA7326
DEV.SET
CG-10 BOARD
CN585 8P
1 GND (UNSW)
2 UNSW 5V
3 JOG
4 OSD VD
5 CG CLK
6 RST
7 CG SI
8 CG CS
TO MA-62 BOARD CN585 (See page 58.)
IC685 AFC


14
15
16
17
18
19
20
21
22
23
24
YC-59 BOARD
CN001 15P Boad to Boad
Y REC
GND
SP
PB RF
SW 9V
SW. P
GND
VIDEO
EDIT
SHARPNESS
PB
Q. VD
COMP SYNC
GND
VIDEO
Y REC LEVEL
RF AGC
Q002 BUFFER
IC001 Y PROCESS
IC001 LA7326
IC002 CHROMA PROCESS
IC002 7316AN
IC003 1H DELAY CCD
IC003 LC8991
IC004 BA178M05
5V REG
Q015 BUFFER
Q019 BUFFER
Q020,021 BUFFER
Q007 012 PB AMP
FL002
1HDL
DEV.SET
CAR.SET
PB.LEVEL
NOI.CAN
JW001
JW002
JW004
JW005
JW007
JW010
5V
(See page 56.)

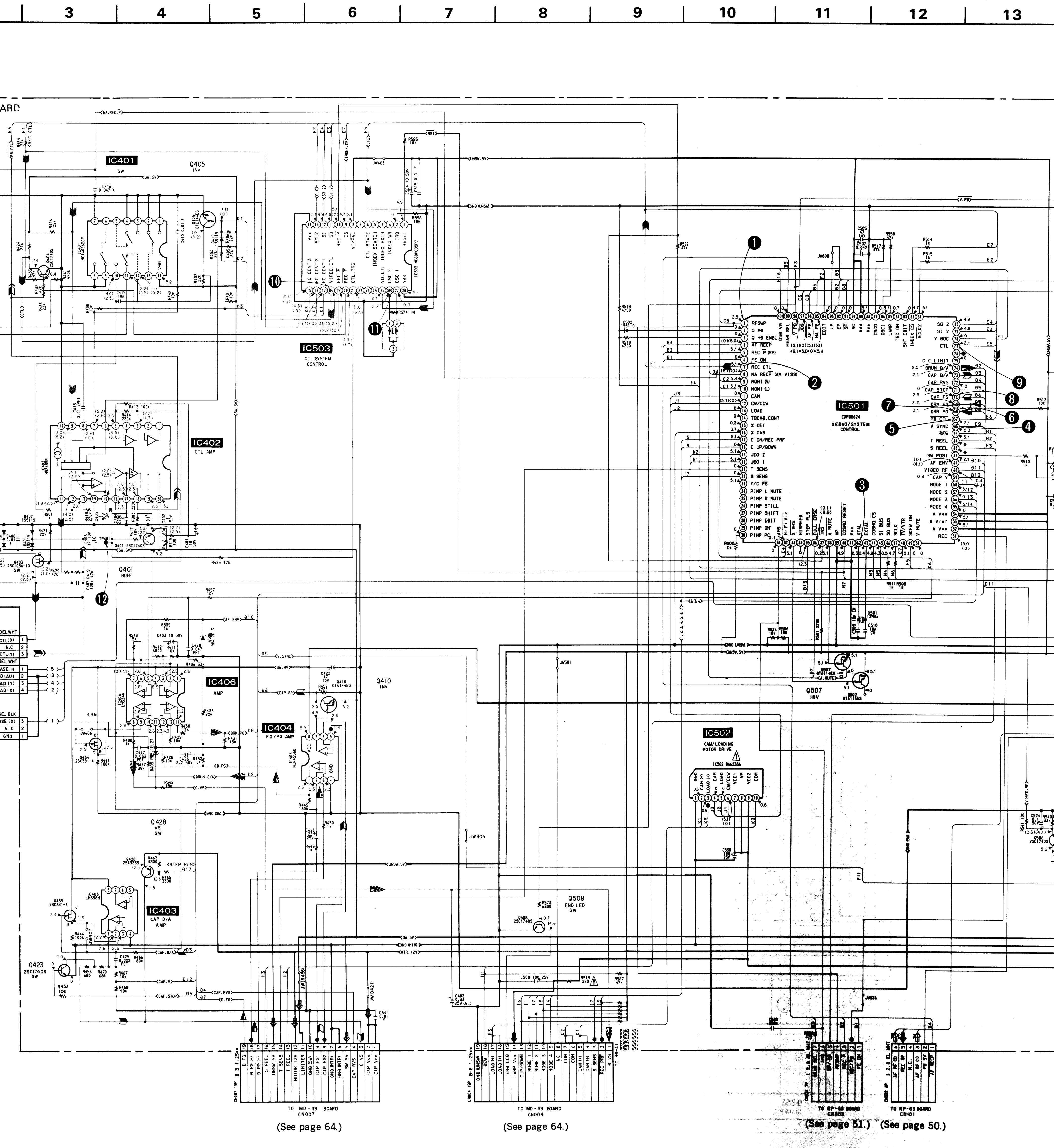

CG-10 BOARD
CN585 8P
GND (UNSW)
UNSW 5V
JOG
OSD VD
CG CLK
RST
CG SI
CG CS
TO MA-62 BOARD CN585
(See page 58.)
CN586 9P
NC
NC
OSD OUT(Y)
GND(SW)
OSD IN(V)
NC
GND (SW)
SW 5V
(See page 58.)
TO MA-62 BOARD CN586
IC851 ON SCREEN DISPLAY
IC851 M50554
IC685 AFC
IC685 LVA519S
X851 14.32MHZ
Q853 CLAMP
Q856 BUFF
Q857 BUFF
no mark : REC/PB mode


21
22
23
24
25
26
27
28
29
30
31
IC004
BA178M05
5V
REG
5
8.1
D008
11ES2
C066
220
6.3V
C064
0.1
C063
47
10V
C083
0.01
CN002 15P Bood to Bood
1 LP
2 N.C.
3 SECAM ACK
4 N.C.
5 DOP
6 NOR PB
7 5V
8 REC.C
9 GND
10 PB.C
11 C.ROT
12 4.43NTSC
13 NC
14 NC
15 GND
C077
0.047
F
C076
47
10V
C073
10p
C069
33p
C068
100p
L009
39μH
C079
1
50V
R102
3.9k
D102
1S2837
L008
10μH
C078
0.01
F
R052
8200
R055
10k
R049
100k
C070
100p
D005 1S2837
R051
4700
C074
100p
X001
IC002
CHROMA
PROCESS
FL002
BPF
4.21M
BPF
3.58M
LPF
1.0M
Q019
BUFFER
Q022
BUFFER
R059
33k
C056
0.01
F
Q019
2SC1623
R063
560
Q021
2SC1623
Q020
2SC1623
R066
1k
Q022
2SA812
C058
0.01
F
C060
47
10V
R069
1500
R070
3900
Q023
2SC1623
C062
0.01
F
C061
0.01
F
R072
1k
L101
330μH
L102
220μH
C101
330p
C102
330p
R084
1500
R060
33k
R061
1k
C082
0.01
F
C057
0.01
F
R062
390
R064
180
R065
1k
RV007
1k
C.REC
C059
0.047
F
R067
560
R071
1300
Q023
BUFFER
Q020,021
BUFFER
JW004
DL002
DL001
1HDL
R074 1k
R075 1k
C049
1
50V
C050
0.01
C048
0.047
B
D009
1S2837
C052
2.2
C053
0.022
B
R047
390
C055
0.01
F
R103
1.8k
Q102
DTC114EK
C054
0.047
F
R076
3.3k
C051
1
50V
R085
560
JW005
NO MARK : REC/PB
( ) : PB
IC003
1H DELAY
CCD
R048
1k
L013
68μH
L012
68μH
Q015
2SC1623
C040
24p
C039
82p
C038
24p
Q015
BUFFER
TERMINAL BOARD (TERMINAL BOARD is replaced as a block)
10-41 BOARD
SLV-676UC
CN101
1 BS Y/C CONT
2 SIRCS OUT
3 SIRCS IN
4 GND(UNSW)
5 NC
6 NC
7 GND
8 NC
9 LINE I(R)
10 GND(AU)
11 A OUT(R)
12 GND(AU)
13 NC
14 LINE I(L)
15 GND
16 A OUT(L)
17 GND(AU)
TO MA-62
BOARD
CN561
(See page 58.)
C4
0.01
D4
C3
0.01
D3
C5
0.01
D5
C1
0.01
D1
JW001
D1-4
RD6.2EB
R8
1k
J002
CONTROL S OUT
J001
CONTROL S IN
LINE
IN 1
R
AUDIO
L
VIDEO
R2
75
LINE
OUT
R3
1k
R4
1k
MONITOR
OUT
R5
1k
R6
1k
CN102
1 NC
2 LINE I IN(V)
3 GND(SW)
4 LINE OUT(V)
5 GND(SW)
6 MONI OUT(V)
7 GND SW
TO MA-62
BOARD
CN562
(See page 58.)
CN586 3P
1 NC
2 NC
3 OSD OUT(Y)
4 GND(SW)
5 OSD IN(V)
6 NC
7 GND (SW)
8 SW 5V
(See page 58.)
TO MA-62
BOARD
CN586
C866
0.01 Y
C801
0.068
X
C802
10
10V
:BP
R801
4700
L852
180μH
Q803
DTC144ES
L853
180μH
JW101
C856
10p
R860
3900
C855
10p
JW103
R857
2700
R867
680
R868
3900
R866
470
Q857
BUFF
no mark : REC/PB mode

MA-62 (SERVO, SYSTEM CONTROL, NORMAL AUDIO), SI-10 (AUDIO SW) SCHEMATIC DIAGRAM
—Ref. No. MA-62 and SI-10 BOARDS : 3000 series—


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
MA-62 BOARD
Q412 SW
IC401 SW
Q405 INV
Q404 INV
IC503 CTL SYSTEM CONTROL
IC402 CTL AMP
Q401 BUFF
ACE HEAD
CTL
A ERASE
AUDIO
FULL ERASE HEAD
CN587 3P I 2.0EL WHT
CN573 4P I 2.5EL WHT
CN574 3P I 2.5EL BLK
A ERASE H
GND (AU)
A HEAD (Y)
A HEAD (X)
FULL ERASE (X)
IC406 AMP
IC404 FG/PG AMP
Q410 INV
Q428 VS SW
IC403 CAP D/A AMP
Q435
Q423 2SC1740S SW
Q508 END LED SW
JW405
TO MD-49 BOARD CN007
(See page 64.)
TO MD-49 BOARD CN004
(See page 64.)

ONTROL, NORMAL AUDIO), SI-10 (AUDIO SW) SCHEMATIC DIAGRAM
OARDS : 3000 series—


3
4
5
6
7
8
9
10
11
12
13
ARD
IC401
SW
Q405
INV
IC402
CTL AMP
Q401
BUFF
IC503
CTL SYSTEM CONTROL
IC501
CXP80624
SERVO/SYSTEM CONTROL
IC406
AMP
IC404
FG/PG AMP
Q410
INV
Q428
VS SW
IC403
CAP D/A AMP
Q423
2SC1740S
SW
Q508
END LED SW
Q507
INV
IC502
CAM/LOADING MOTOR DRIVE
IC502 BA6238A
TO MD-49 BOARD
CN007
(See page 64.)
TO MD-49 BOARD
CN004
(See page 64.)
TO RP-63 BOARD
CN503
(See page 51.)
TO RP-63 BOARD
CN101
(See page 50.)
❶
❷
❸
❹
❺
❻
❼
❽
❾
❿
⓫
⓬

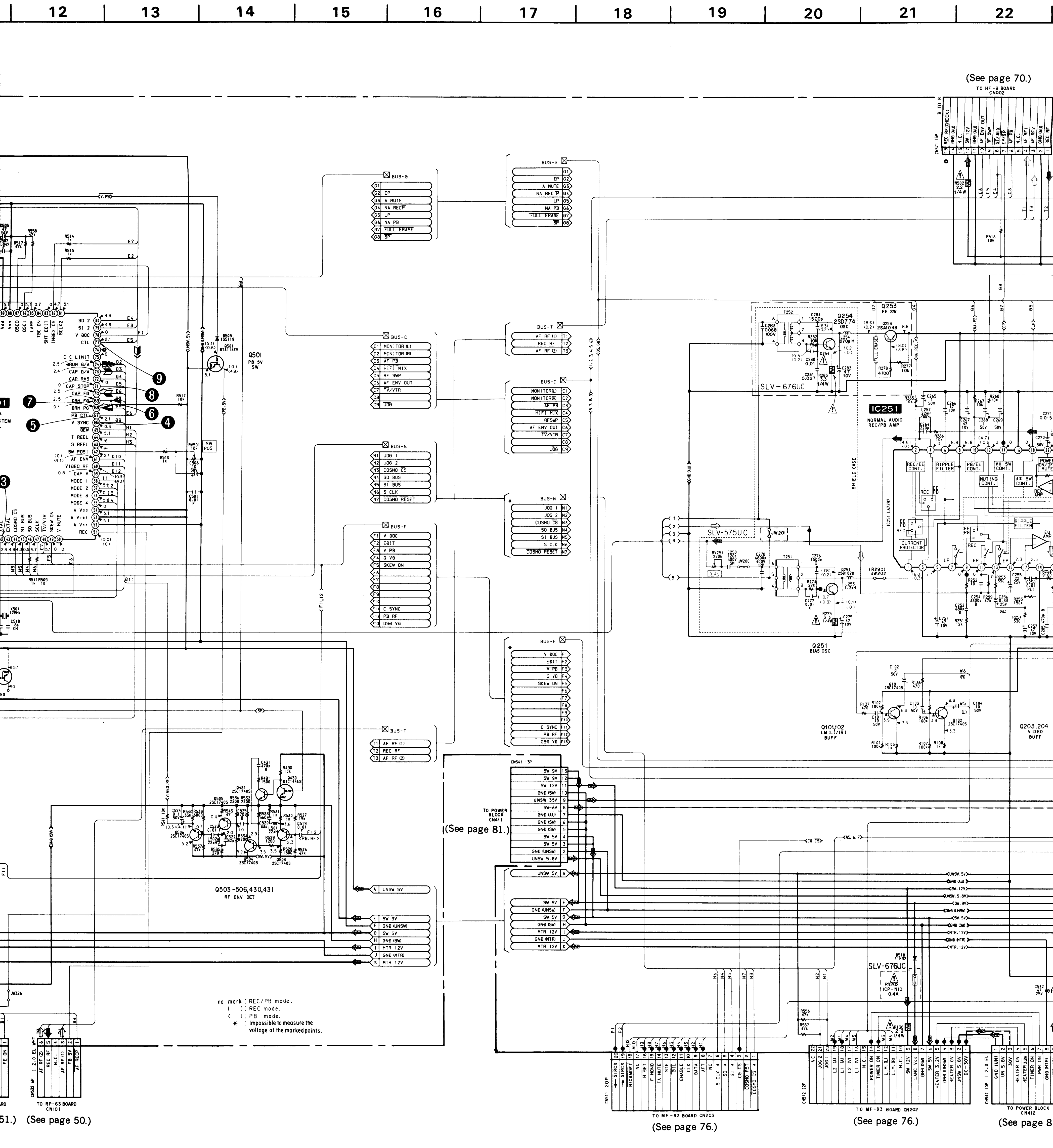
SERVO, SYSTEM CONTROL, AUDIO SERVO, SYSTEM CONTROL, AUDI

• **Signal path**

	REC	REC/PB	PB
Drum speed servo		▷	
Drum phase servo		▷▷	
Drum servo(speed and phase)		▷▷▷	
Capstan speed servo		▷	
Capstan phase servo	▶〉	▷〉	▷〉
Capstan servo(speed and phase)		▷〉〉	
Ref.signal	▶	▷	▷

• **Signal path**

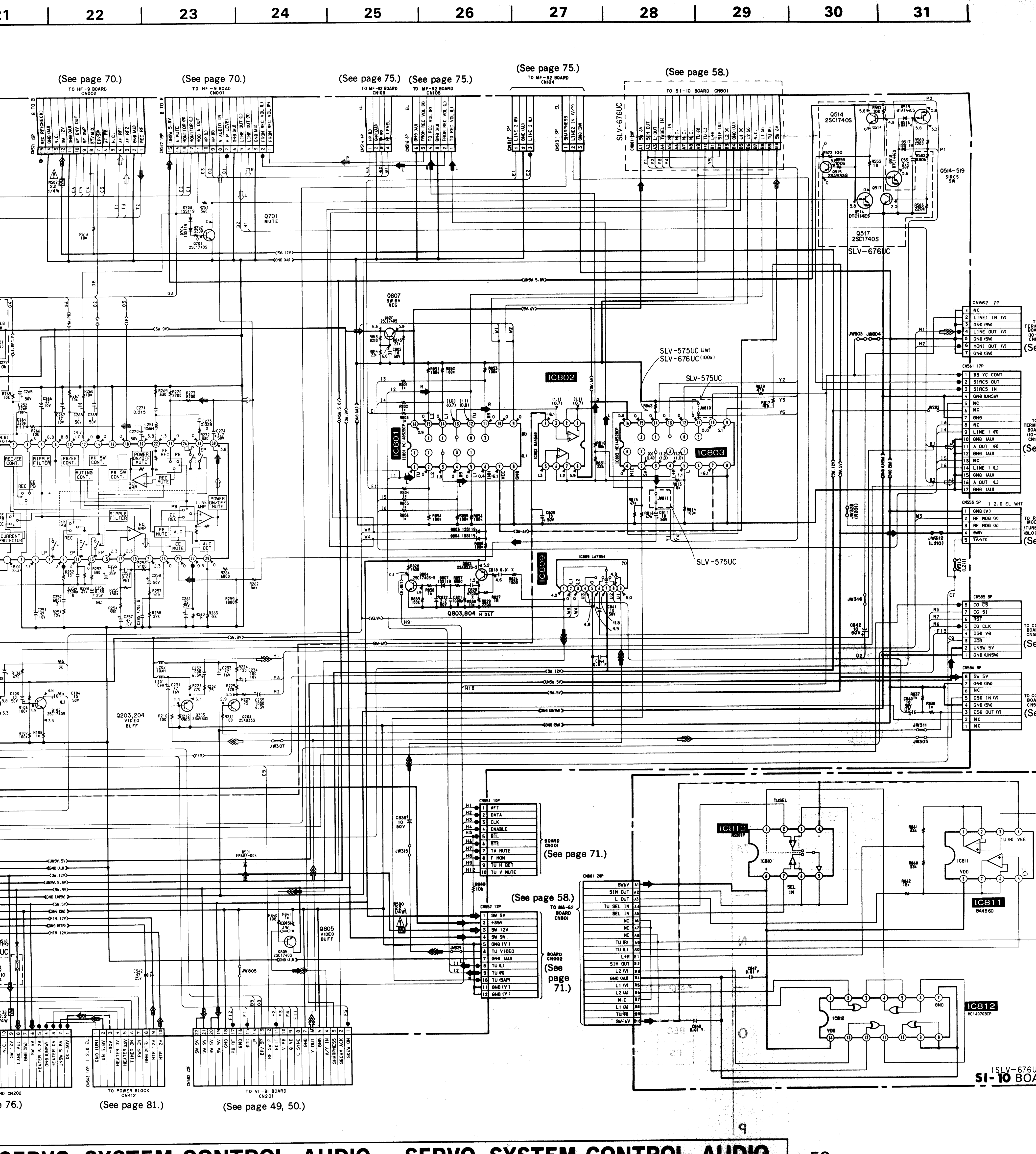
	VIDE
	CHROMA
REC	➡
PB	⇨



12
13
14
15
16
17
18
19
20
21
22
(See page 70.)
TO HF-9 BOARD CN002
BUS-G
BUS-C
BUS-N
BUS-F
BUS-T
Q501 PB 5V SW
Q253 FE SW
Q254 2SD774 OSC
SLV-676UC
SLV-575UC
IC251
NORMAL AUDIO REC/PB AMP
SHIELD CASE
Q251 BIAS OSC
Q101,102 LM(L)/(R) BUFF
Q203,204 VIDEO BUFF
Q503-506,430,431 RF ENV DET
TO POWER BLOCK CN411
(See page 81.)
no mark : REC/PB mode.
( ) : REC mode.
〈 〉 : PB mode.
* : Impossible to measure the voltage at the marked points.
TO RP-63 BOARD CN101
51.) (See page 50.)
TO MF-93 BOARD CN203
(See page 76.)
TO MF-93 BOARD CN202
(See page 76.)
TO POWER BLOCK CN412
(See page 8

• Signal path

	VIDEO Signal			AUDIO Signal
	CHROMA	Y	Y/CHROMA	
REC	➡	➡➡	➡➡➡	➡
PB	⇨	⇨⇨	⇨⇨⇨	⇨

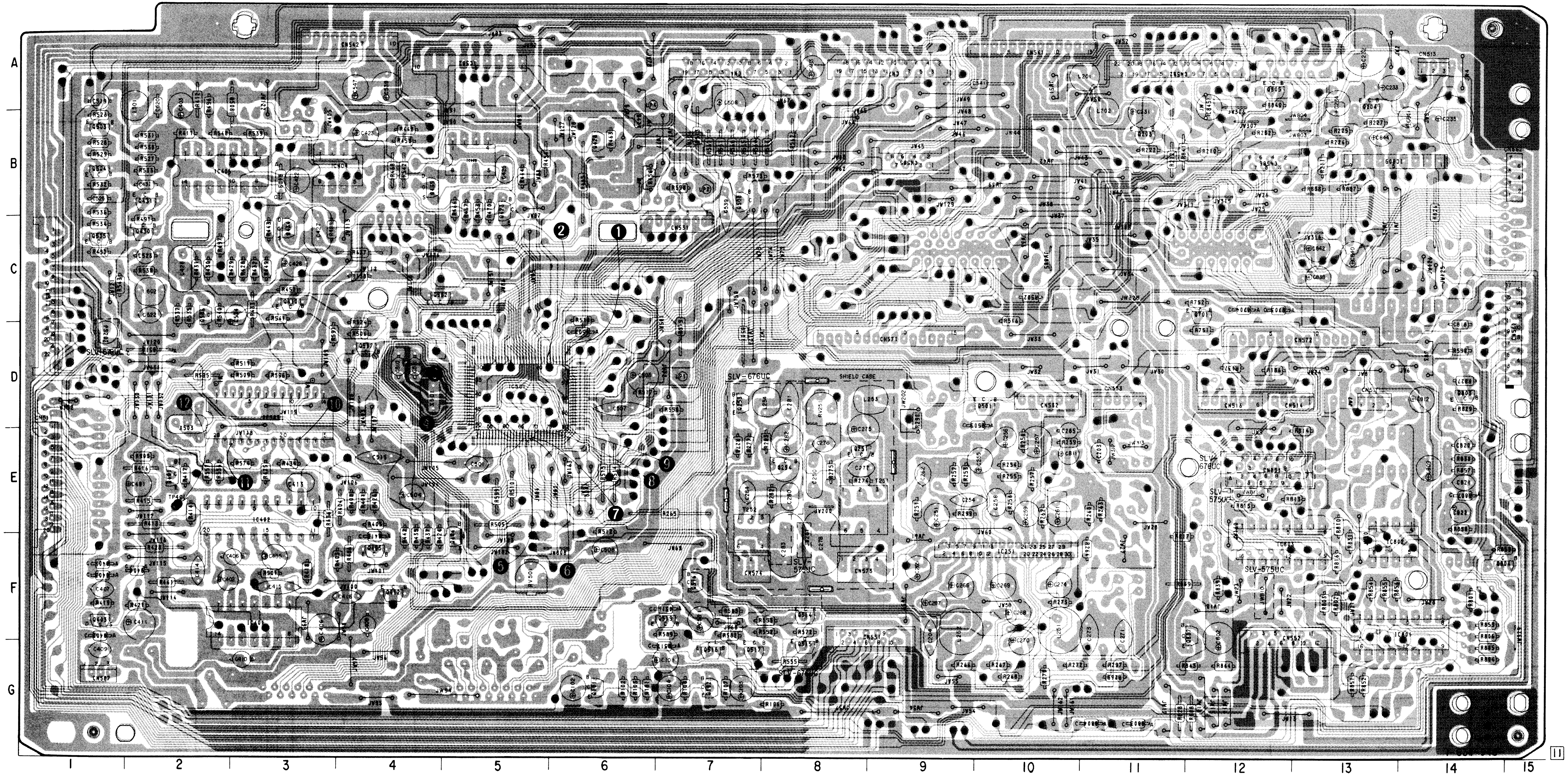

21
22
23
24
25
26
27
28
29
30
31
(See page 70.)
TO HF-9 BOARD CN002
(See page 70.)
TO HF-9 BOARD CN001
(See page 75.)
TO MF-92 BOARD CN103
(See page 75.)
TO MF-92 BOARD CN105
(See page 75.)
TO MF-92 BOARD CN104
(See page 58.)
TO SI-10 BOARD CN801
SLV-676UC
Q514 2SC1740S
Q517 2SC1740S
Q514-519 SIRCS SW
SLV-676UC
Q701 MUTE
Q807 5W 6V REG
IC801
IC802
IC803
IC809
SLV-575UC (JW)
SLV-676UC (100k)
SLV-575UC
SLV-575UC
Q803,804 H DET
Q203,204 VIDEO BUFF
Q805 VIDEO BUFF
CN551 10P
BOARD CN001
(See page 71.)
(See page 58.)
TO MA-62 BOARD CN801
CN552 12P
BOARD CN002
(See page 71.)
TO POWER BLOCK CN412
(See page 81.)
TO VI-91 BOARD CN201
(See page 49, 50.)
(See page 76.)
IC810
IC811 BA4560
IC812 MC14070BCP
TUSEL
SEL IN
(SLV-676U
SI-10 BOA

SERVO, SYSTEM CONTROL, AUDIO SERVO, SYSTEM CONTROL, AUDIO

MA-62 (SERVO, SYSTEM CONTROL, NORMAL AUDIO), SI-10 (AUDIO SW) PRINTED WIRING BOARDS

—Ref. No. MA-62 and SI-10 BOARDS : 3000 series—

MA-62 BOARD


A
B
C
D
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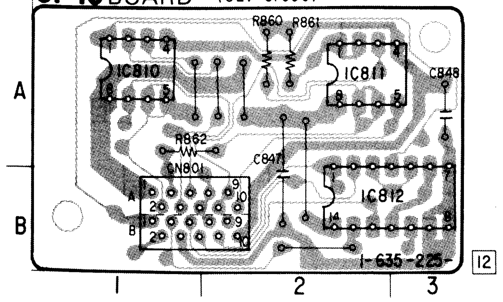
⓬
IC501
IC402
IC251
IC802
IC801
CN571
CN572
CN573
CN574
CN575
SHIELD CASE
SLV-676UC
SLV-575UC
TP401
X503
11

D401	F-1
D402	F-1
D403	F-1
D404	F-2
D409	B-3
D410	F-4
D501	D-7
D502	D-6
D505	E-10
D508	A-2
D516	F-7
D517	G-7
D518	D-2
D703	C-12
D704	C-12
D803	G-11
D804	G-11
D807	E-14
IC251	F-10
IC401	F-3
IC402	E-3
IC403	B-5
IC404	B-4
IC406	B-2
IC501	D-5
IC502	A-5
IC503	D-3
IC801	G-14
IC802	F-13
IC803	F-12
IC809	B-13
Q101	G-6
Q102	G-7
Q203	B-11
Q204	A-13
Q251	E-8
Q253	D-7
Q254	E-8
Q401	E-2
Q403	F-1
Q404	F-5
Q405	F-4
Q410	C-3
Q412	F-4
Q423	C-5
Q428	B-6
Q430	C-2
Q431	B-2
Q434	C-3
Q435	B-4
Q501	D-10
Q502	C-5
Q503	B-1
Q504	B-1
Q505	C-1
Q506	C-2
Q507	D-4
Q508	B-6
Q514	F-8
Q515	G-8
Q516	F-7
Q517	G-7
Q518	G-7
Q519	F-7
Q701	C-12
Q803	D-14
Q804	F-14
Q805	A-12
Q807	G-12

SI-10 BOARD (SLV-676UC)


A
B
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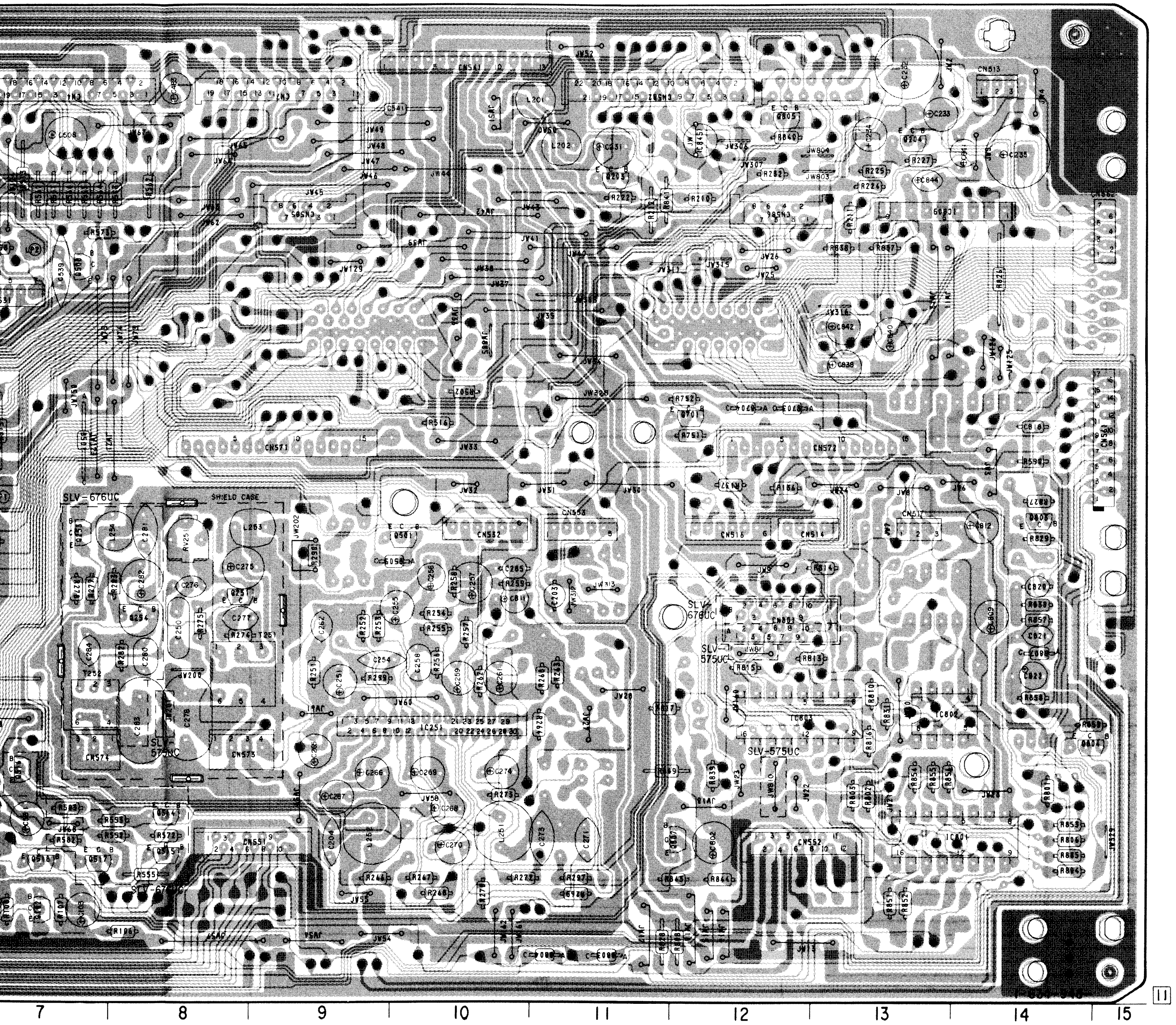
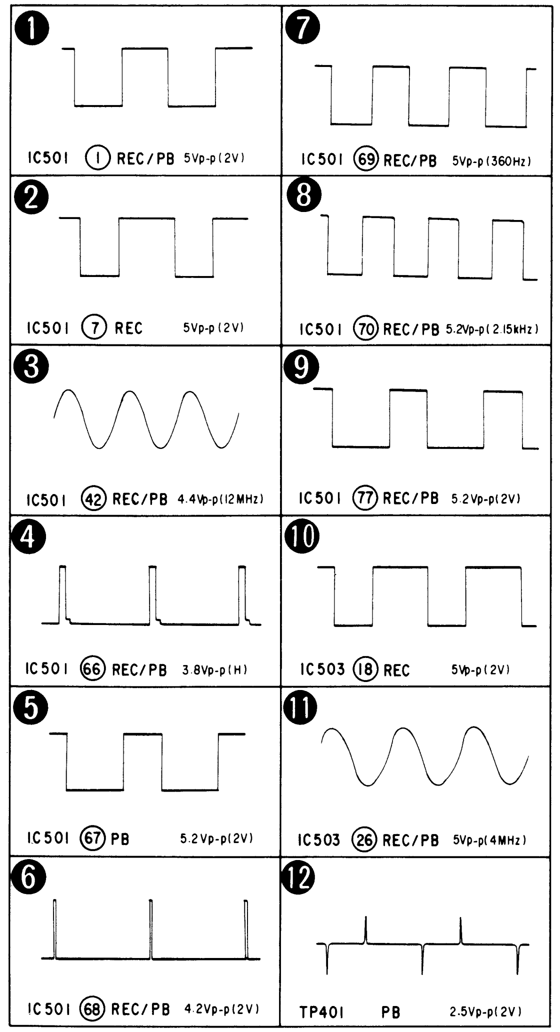
IC810
IC811
IC812
R860
R861
R862
C848
C847
CN801
1-635-225-
12


SLV-676UC
SHIELD CASE
SLV-676UC
SLV-575UC
SLV-575UC
CN571
CN572
IC251
IC801
IC802
7
8
9
10
11
12
13
14
15
11

D401	F-1
D402	F-1
D403	F-1
D404	F-2
D409	B-3
D410	F-4
D501	D-7
D502	D-6
D505	E-10
D508	A-2
D516	F-7
D517	G-7
D518	D-2
D703	C-12
D704	C-12
D803	G-11
D804	G-11
D807	E-14
IC251	F-10
IC401	F-3
IC402	E-3
IC403	B-5
IC404	B-4
IC406	B-2
IC501	D-5
IC502	A-5
IC503	D-3
IC801	G-14
IC802	F-13
IC803	F-12
IC809	B-13
Q101	G-6
Q102	G-7
Q203	B-11
Q204	A-13
Q251	E-8
Q253	D-7
Q254	E-8
Q401	E-2
Q403	F-1
Q404	F-5
Q405	F-4
Q410	C-3
Q412	F-4
Q423	C-5
Q428	B-6
Q430	C-2
Q431	B-2
Q434	C-3
Q435	B-4
Q501	D-10
Q502	C-5
Q503	B-1
Q504	B-1
Q505	C-1
Q506	C-2
Q507	D-4
Q508	B-6
Q514	F-8
Q515	G-8
Q516	F-7
Q517	G-7
Q518	G-7
Q519	F-7
Q701	C-12
Q803	D-14
Q804	F-14
Q805	A-12
Q807	G-12

MA-62 BOARD

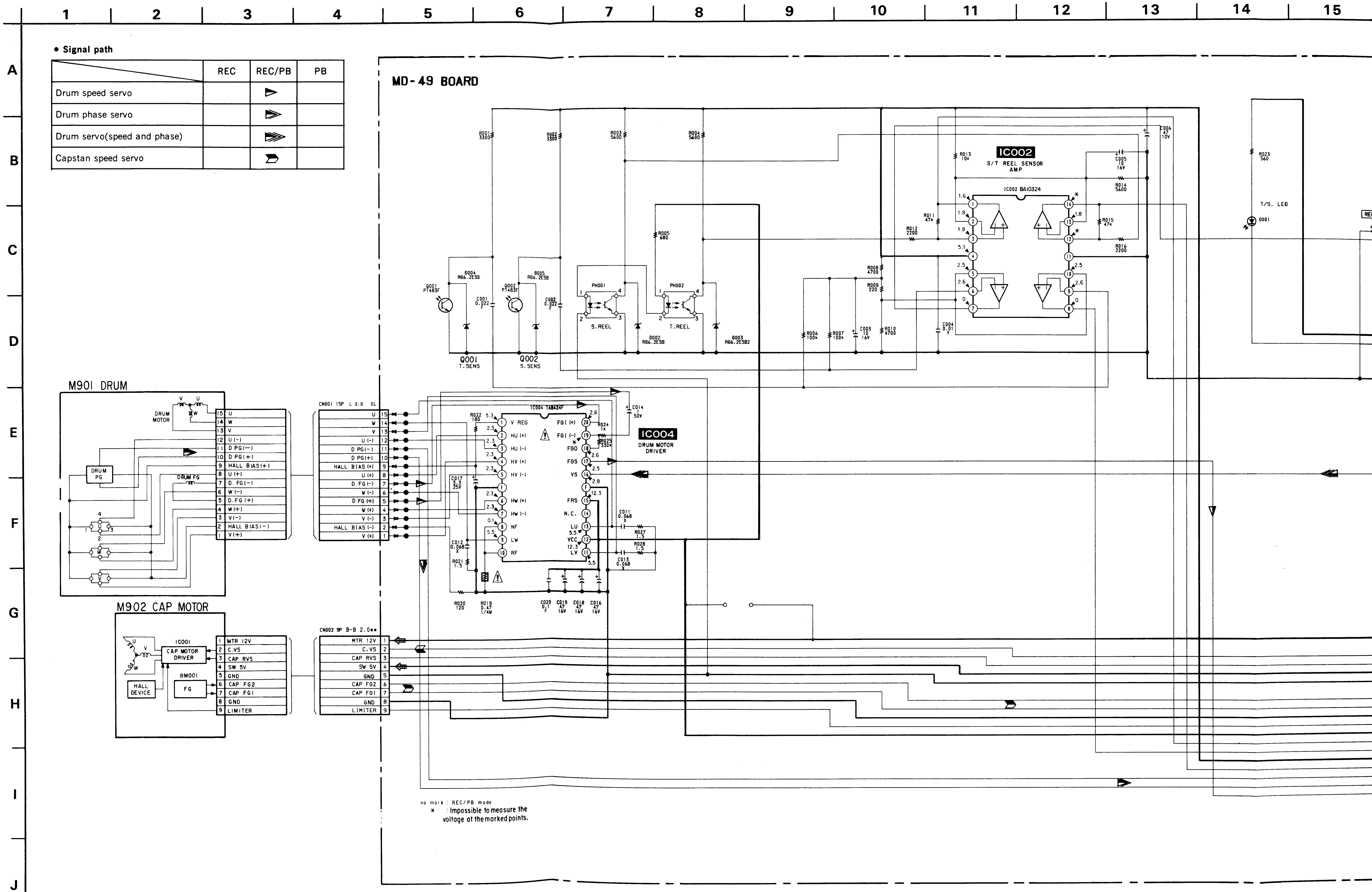


MD-49 (MECHANISM DRIVE) SCHEMATIC DIAGRAM

—Ref. No. MD-49 BOARD : 2000 series—

- **Signal path**

	REC	REC/PB	PB
Drum speed servo		▷	
Drum phase servo		⊳	
Drum servo(speed and phase)		⋙	
Capstan speed servo		⇨	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A
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G
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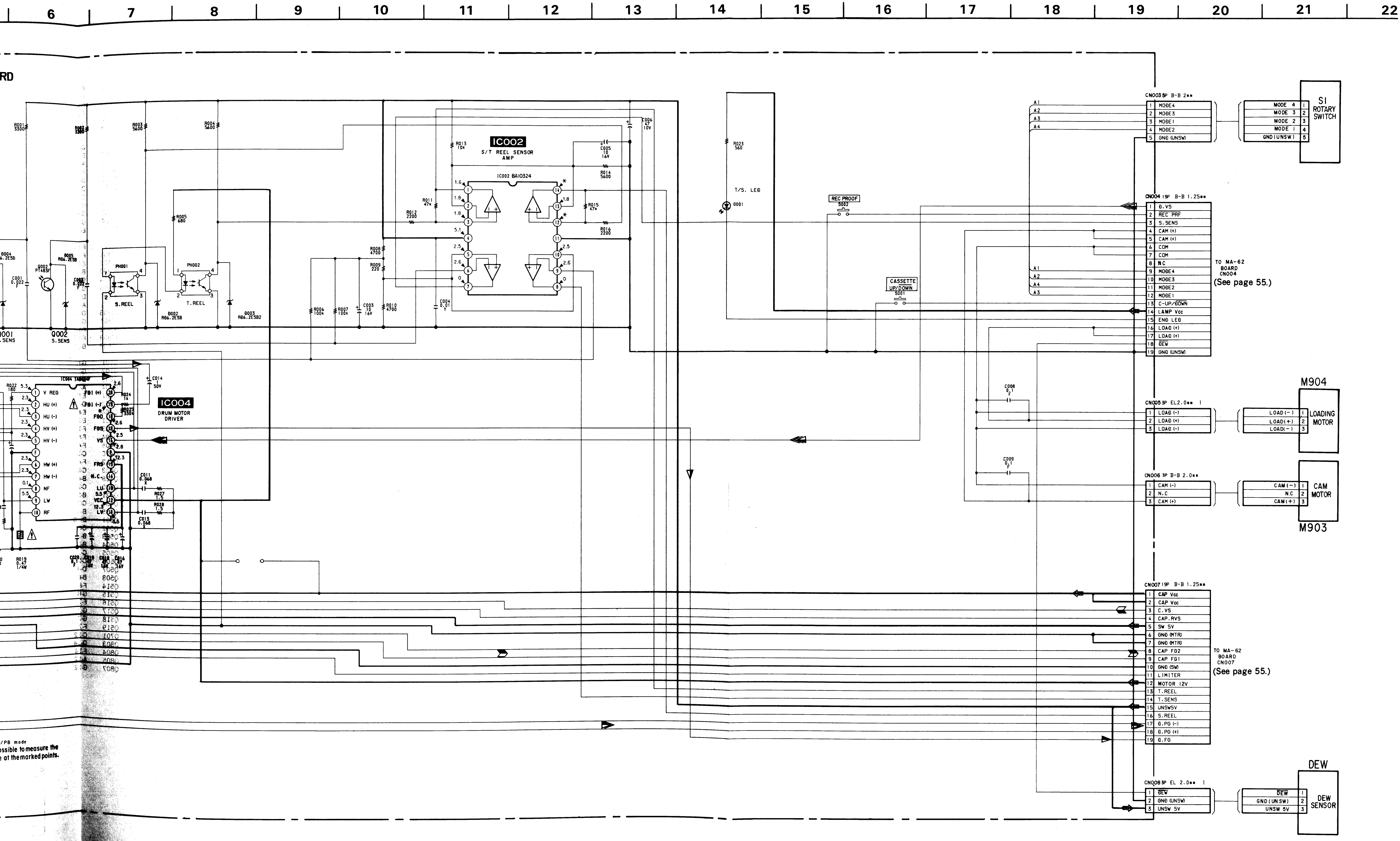
I
J
MD-49 BOARD
IC002
S/T REEL SENSOR AMP
IC002 BA10324
IC004
DRUM MOTOR DRIVER
IC004 TA8424F
Q001 PT483F
Q002 PT483F
Q001 T.SENS
Q002 S.SENS
PH001
PH002
S.REEL
T.REEL
T/S. LED
M901 DRUM
DRUM MOTOR
DRUM PG
DRUM FG
M902 CAP MOTOR
IC001 CAP MOTOR DRIVER
RM001
FG
HALL DEVICE
CN001 15P L 2.0 EL
CN002 9P B-B 2.0mm
U
W
V
U (−)
D PG(−)
D PG(+)
HALL BIAS(+)
U (+)
D. FG(−)
W (−)
D.FG (+)
W(+)
V(−)
HALL BIAS(−)
V(+)
MTR 12V
C.VS
CAP RVS
SW 5V
GND
CAP FG2
CAP FG1
LIMITER
V REG
HU (+)
HU (−)
HV (+)
HV (−)
HW (+)
HW (−)
NF
LW
RF
FG1 (+)
FG1 (−)
FGO
FGS
VS
FRS
N.C.
LU
VCC
LV

no mark : REC/PB mode
* : Impossible to measure the voltage at the marked points.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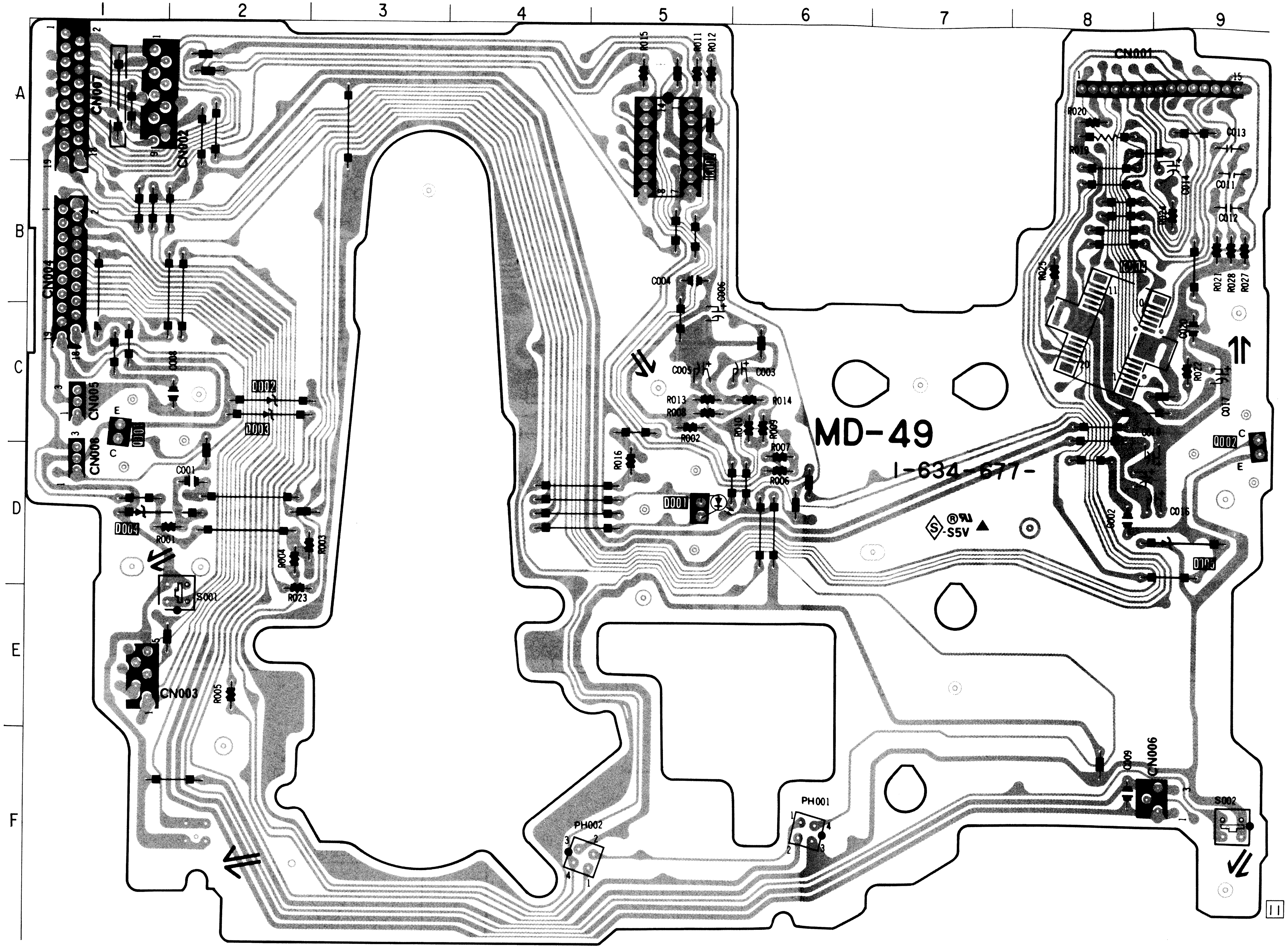
21
22
IC002
S/T REEL SENSOR AMP
IC002 BA10324
IC004
DRUM MOTOR DRIVER
PH001
S.REEL
PH002
T.REEL
Q002
S.SENS
T/S. LED
D001
REC PROOF
S002
CASSETTE UP/DOWN
S001
CN003 5P B-B 2mm
MODE4
MODE3
MODE1
MODE2
GND (UNSW)
S1 ROTARY SWITCH
MODE 4
MODE 3
MODE 2
MODE 1
GND(UNSW)
CN004 19P B-B 1.25mm
D.VS
REC PRF
S.SENS
CAM (+)
CAM (+)
COM
COM
NC
MODE4
MODE3
MODE2
MODE1
C-UP/DOWN
LAMP Vcc
END LED
LOAD (+)
LOAD (+)
DEW
GND (UNSW)
TO MA-62 BOARD CN004
(See page 55.)
M904
CN005 3P EL2.0mm
LOAD (-)
LOAD (+)
LOAD (-)
LOADING MOTOR
CN006 3P B-B 2.0mm
CAM (-)
N.C
CAM (+)
CAM MOTOR
M903
CN007 19P B-B 1.25mm
CAP Vcc
CAP Vcc
C.VS
CAP.RVS
SW 5V
GND (MTR)
GND (MTR)
CAP FG2
CAP FG1
GND (SW)
LIMITER
MOTOR 12V
T.REEL
T.SENS
UNSW5V
S.REEL
D.PG (-)
D.PG (+)
D.FG
TO MA-62 BOARD CN007
(See page 55.)
DEW
CN008 3P EL 2.0mm
DEW
GND (UNSW)
UNSW 5V
DEW SENSOR
V REG
HU (+)
HU (-)
HV (+)
HV (-)
HW (+)
HW (-)
NF
LW
RF
/PB mode
ssible to measure the
e at the marked points.

MECHANISM DRIVE MECHANISM DRIVE

MD-49 (MECHANISM DRIVE) PRINTED WIRING BOARD

—Ref. No. MD-49 BOARD : 2000 series—

MD-49 BOARD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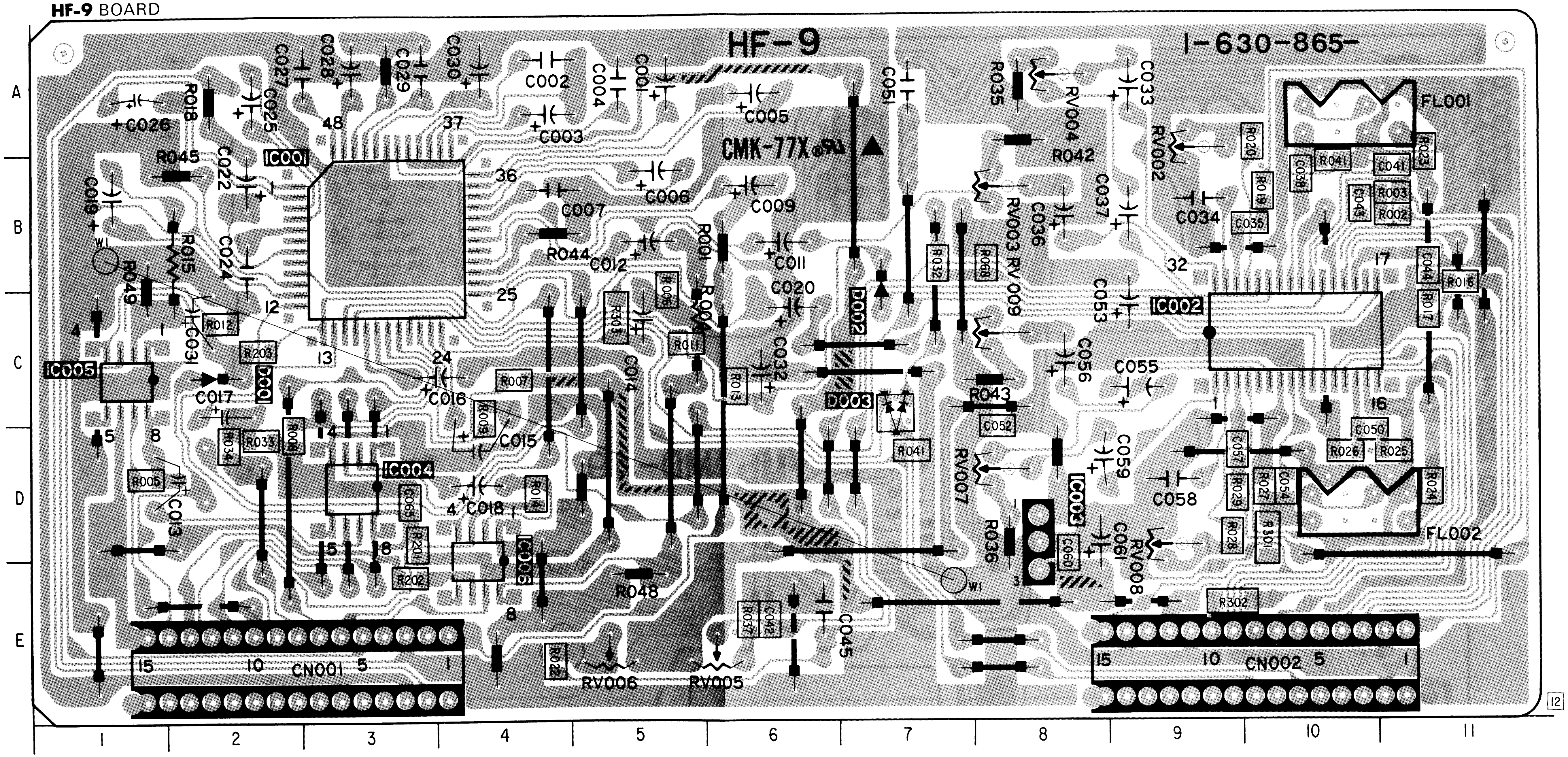
CN007
CN002
CN004
CN005
CN006
CN003
CN001
CN006
IC002
IC004
Q001
Q002
D001
D002
D003
D004
D005
C001
C003
C004
C005
C006
C008
C009
C011
C012
C013
C014
C015
C016
C017
R001
R002
R003
R004
R005
R006
R007
R008
R009
R010
R011
R012
R013
R014
R015
R016
R019
R020
R023
R024
R025
R027
R028
R029
S001
S002
PH001
PH002
MD-49
1-634-677-
S5V
E
C

D001	D-5
D002	C-2
D003	C-2
D004	D-1
D005	D-5
IC002	A-5
IC004	C-8
Q001	C-1
Q002	C-9

HF-9 (Hi-Fi AUDIO) PRINTED WIRING BOARD

—Ref. No. HF-9 BOARD: 4000 series—

D001	C-2
D002	C-7
D003	C-7
IC001	B-3
IC002	C-10
IC003	D-8
IC004	D-3
IC005	C-1
IC006	D-4


HF-9 BOARD
HF-9
1-630-865-
CMK-77X
A
B
C
D
E
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8
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10
11
12
IC001
IC002
IC003
IC004
IC005
IC006
D001
D002
D003
CN001
CN002
FL001
FL002
RV002
RV003
RV004
RV005
RV006
RV007
RV008
RV009
C001
C002
C003
C004
C005
C006
C007
C009
C011
C012
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C059
C060
C061
C065
R001
R002
R003
R004
R005
R006
R007
R008
R009
R011
R012
R013
R014
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R018
R019
R020
R022
R023
R024
R025
R026
R027
R028
R029
R032
R033
R034
R035
R036
R037
R041
R042
R043
R044
R045
R048
R049
R068
R201
R202
R203
R301
R302
R303
W1
48
37
36
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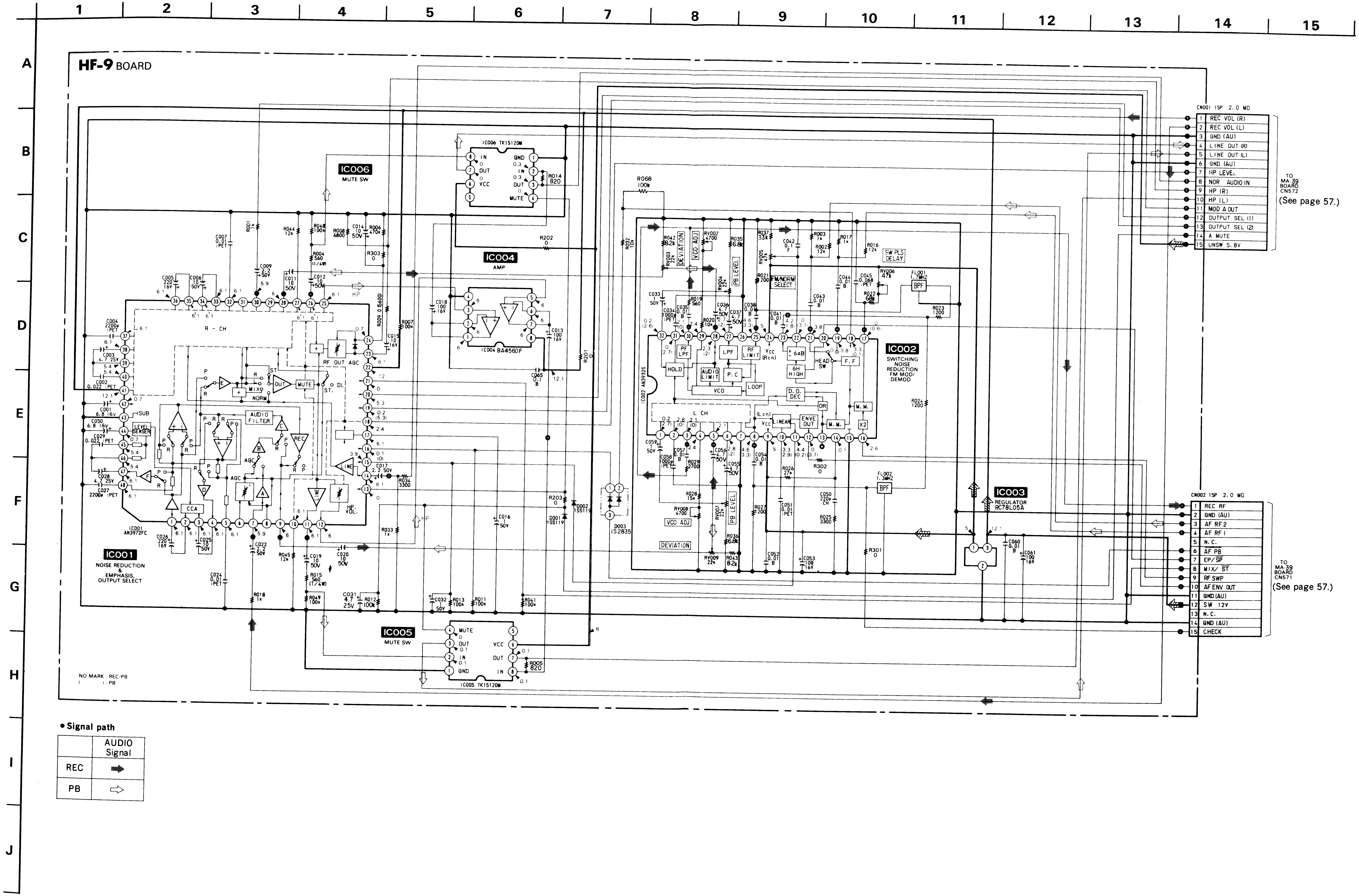
8

HF-9 (Hi-Fi AUDIO) SCHEMATIC DIAGRAM
—Ref. No. HF-9 BOARD : 4000 series—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J
HF-9 BOARD
IC001
NOISE REDUCTION & EMPHASIS, OUTPUT SELECT
IC001 AN3972FC
R - CH
IC002
SWITCHING NOISE REDUCTION FM MOD/ DEMOD
IC002 AN3932S
L CH
IC003
REGULATOR RC78L05A
IC004
AMP
IC004 BA4560F
IC005
MUTE SW
IC005 TK15120M
IC006
MUTE SW
IC006 TK15120M
D001 1SS119
D002 1SS119
D003 1S2835
VCO ADJ
DEVIATION
PB LEVEL
FM/NORM SELECT
SW PLS DELAY
FL001 1.7MHz
FL002 1.3MHz
BPF
CN001 15P 2.0 MO
1 REC VOL (R)
2 REC VOL (L)
3 GND (AU)
4 LINE OUT (R)
5 LINE OUT (L)
6 GND (AU)
7 HP LEVEL
8 NOR AUDIO IN
9 HP (R)
10 HP (L)
11 MOD A OUT
12 OUTPUT SEL (1)
13 OUTPUT SEL (2)
14 A MUTE
15 UNSW 5.8V
TO MA-39 BOARD CN572
(See page 57.)
CN002 15P 2.0 MQ
1 REC RF
2 GND (AU)
3 AF RF 2
4 AF RF 1
5 N.C.
6 AF PB
7 EP/SP
8 MIX/ ST
9 RF SWP
10 AF ENV OUT
11 GND (AU)
12 SW 12V
13 N.C.
14 GND (AU)
15 CHECK
TO MA-39 BOARD CN571
(See page 57.)
NO MARK : REC/PB
( ) : PB

• Signal path

	AUDIO Signal
REC	➡
PB	⇨

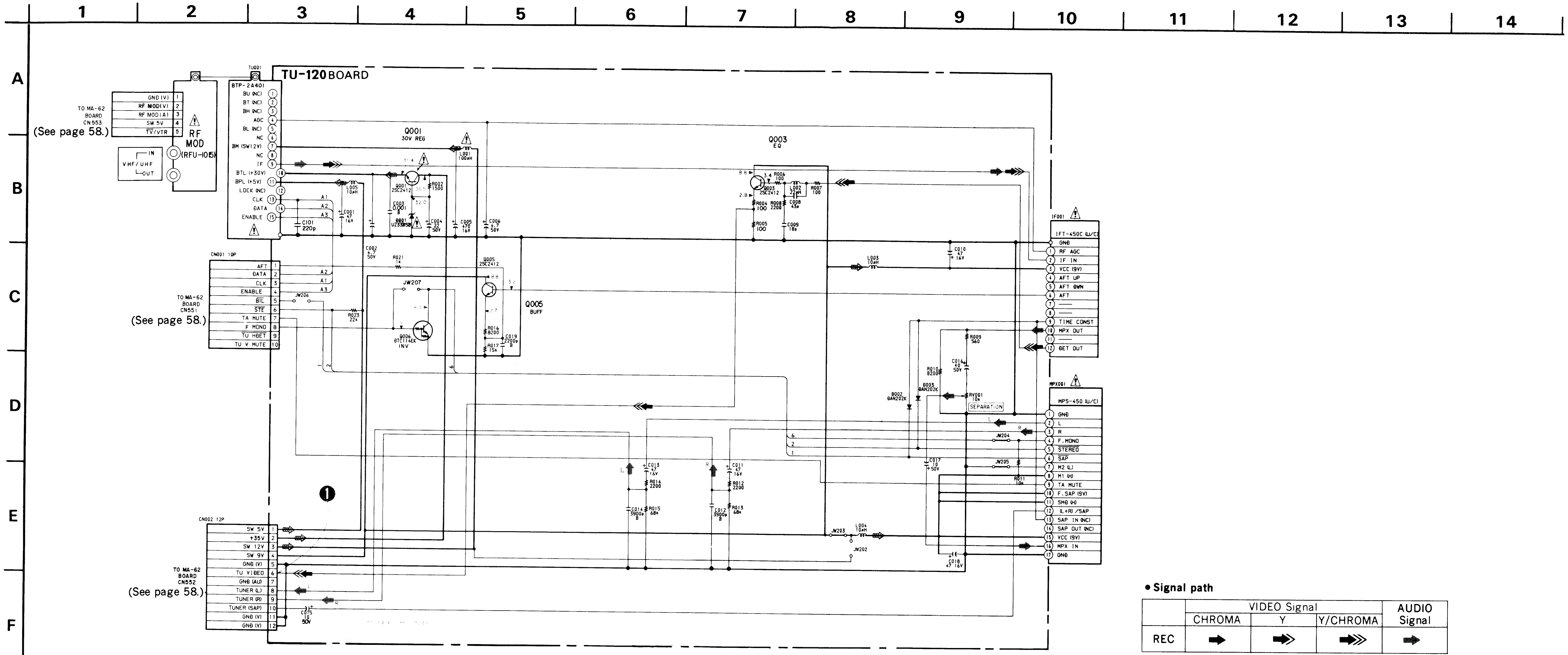
TU-120 (TUNER) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

—Ref. No. TU-120 BOARD : 5000 series—

15

TO MA-39 BOARD CN572 (See page 57.)

TO MA-39 BOARD CN571 (See page 57.)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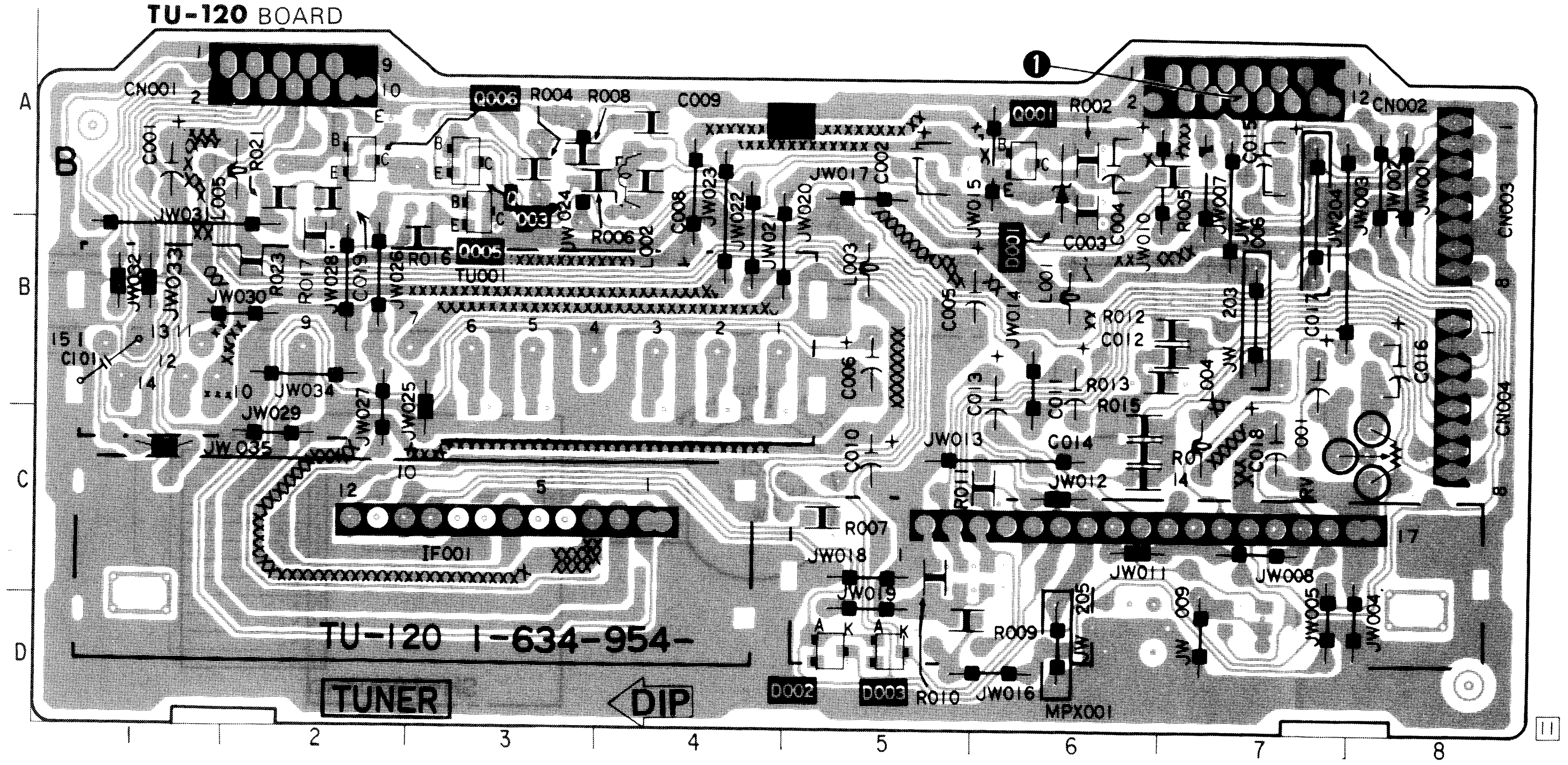
A
B
C
D
E
F
TU-120 BOARD
TO MA-62 BOARD CN553
(See page 58.)
GND (V)
RF MOD (V)
RF MOD (A)
SW 5V
TV/VTR
RF MOD (RFU-105)
VHF/UHF IN OUT
TU001 BTP-2A401
BU (NC)
BT (NC)
BH (NC)
AGC
BL (NC)
NC
BH (SW12V)
NC
IF
BTL (+30V)
BPL (+5V)
LOCK (NC)
CLK
DATA
ENABLE
Q001 30V REG
Q003 EQ
Q005 BUFF
Q006 INV
CN001 10P
TO MA-62 BOARD CN551
(See page 58.)
AFT
DATA
CLK
ENABLE
BIL
STE
TA MUTE
F MONO
TU HDET
TU V MUTE
CN002 12P
TO MA-62 BOARD CN552
(See page 58.)
SW 5V
+35V
SW 12V
SW 9V
GND (V)
TU VIDEO
GND (AU)
TUNER (L)
TUNER (R)
TUNER (SAP)
GND (V)
GND (V)
IF001 IFT-450C (U/C)
GND
RF AGC
IF IN
VCC (9V)
AFT UP
AFT DWN
AFT
TIME CONST
MPX OUT
DET OUT
MPX001 MPS-450 (U/C)
GND
L
R
F.MONO
STEREO
SAP
M2 (L)
M1 (R)
TA MUTE
F.SAP (9V)
SMO (H)
(L+R) /SAP
SAP IN (NC)
SAP OUT (NC)
VCC (9V)
MPX IN
GND
RV001 SEPARATION
D002 DAN202K
D003 DAN202K
❶

• **Signal path**

	VIDEO Signal			AUDIO Signal
	CHROMA	Y	Y/CHROMA	
REC	➡	➡>	➡>>	➡


TU-120 BOARD
CN001
CN002
CN003
CN004
TU001
IF001
MPX001
Q001
Q005
Q006
D001
D002
D003
TU-120 1-634-954-
TUNER
DIP
❶
A
B
C
D
1
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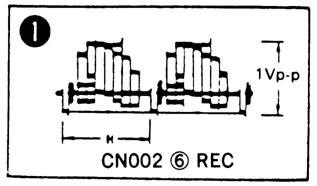
3
4
5
6
7
8

D001	A-6
D002	D-5
D003	D-5
Q001	A-6
Q003	A-3
Q005	A-3
Q006	A-2

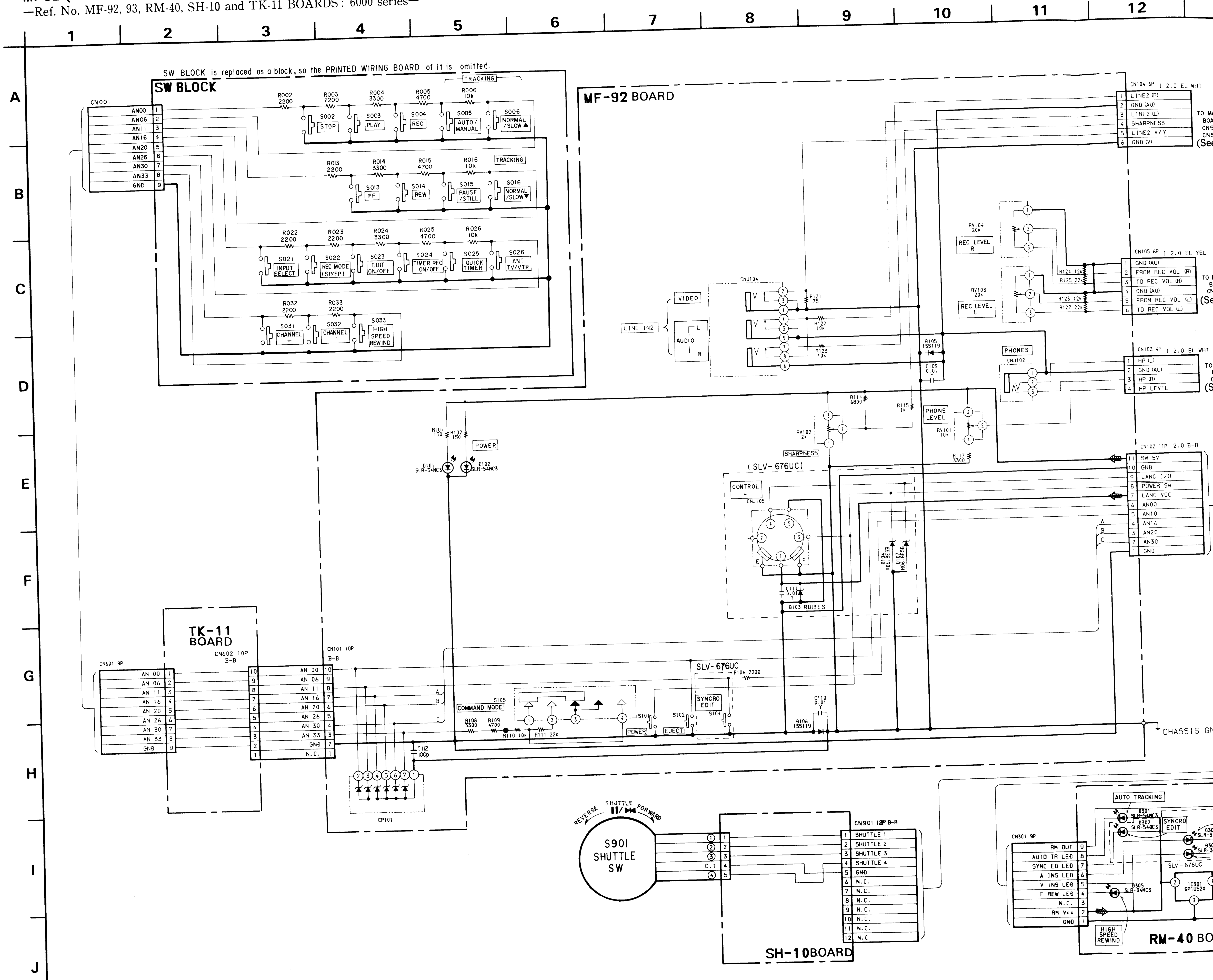
TU-120 BOARD



CN002 ⑥ REC

MF-92 (FUNCTION) MF-93 (MODE CONTROL) RM-40 (IR RECIEVER, LED), SH-10 (SHUTTLE SW), TK-11 (RELAY), SW BLOCK SCHEMATIC DIAGRAM

—Ref. No. MF-92, 93, RM-40, SH-10 and TK-11 BOARDS : 6000 series—



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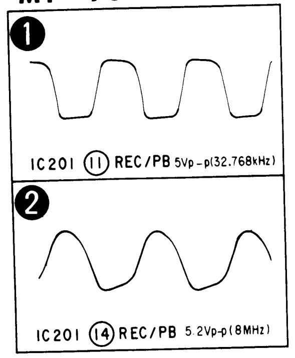
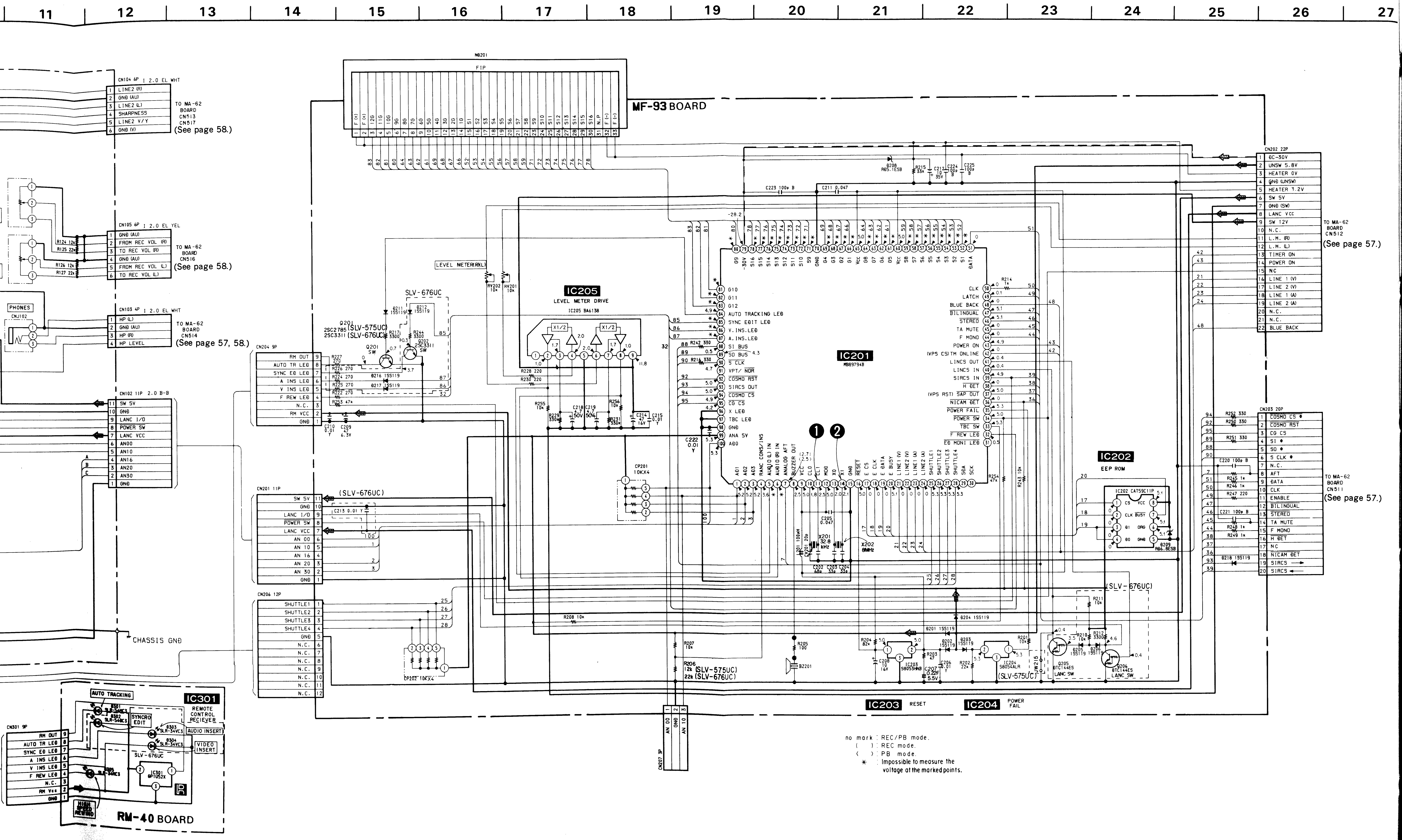
SW BLOCK is replaced as a block, so the PRINTED WIRING BOARD of it is omitted.
SW BLOCK
CN001
AN00
AN06
AN11
AN16
AN20
AN26
AN30
AN33
GND
S002 STOP
S003 PLAY
S004 REC
S005 AUTO/MANUAL
S006 NORMAL/SLOW ▲
TRACKING
S013 FF
S014 REW
S015 PAUSE/STILL
S016 NORMAL/SLOW ▼
S021 INPUT SELECT
S022 REC MODE (SP/EP)
S023 EDIT ON/OFF
S024 TIMER REC ON/OFF
S025 QUICK TIMER
S026 ANT TV/VTR
S031 CHANNEL +
S032 CHANNEL −
S033 HIGH SPEED REWIND
MF-92 BOARD
CN104 6P
LINE2 (R)
GND (AU)
LINE2 (L)
SHARPNESS
LINE2 V/Y
GND (V)
CN105 6P
GND (AU)
FROM REC VOL (R)
TO REC VOL (R)
GND (AU)
FROM REC VOL (L)
TO REC VOL (L)
CN103 4P
HP (L)
GND (AU)
HP (R)
HP LEVEL
CN102 11P
SW SV
GND
LANC I/O
POWER SW
LANC VCC
AN00
AN10
AN16
AN20
AN30
GND
RV104 REC LEVEL R
RV103 REC LEVEL L
PHONES
CNJ102
PHONE LEVEL
RV101
RV102
SHARPNESS
VIDEO
AUDIO
LINE IN2
CNJ104
(SLV-676UC)
CONTROL L
CNJ105
POWER
D101 SLR-54MC3
D102 SLR-54MC3
COMMAND MODE
S105
S101
S102
S104
POWER
EJECT
SLV-676UC
SYNCRO EDIT
CHASSIS GND
TK-11 BOARD
CN601 9P
CN602 10P B-B
CN101 10P B-B
AN 00
AN 06
AN 11
AN 16
AN 20
AN 26
AN 30
AN 33
GND
N.C.
CP101
S901 SHUTTLE SW
REVERSE
SHUTTLE
FORWARD
CN901 12P B-B
SHUTTLE 1
SHUTTLE 2
SHUTTLE 3
SHUTTLE 4
GND
N.C.
SH-10BOARD
AUTO TRACKING
CN301 9P
RM OUT
AUTO TR LED
SYNC ED LED
A INS LED
V INS LED
F REW LED
N.C.
RM Vcc
GND
SYNCRO EDIT
IC301 GP1U52X
HIGH SPEED REWIND
RM-40 BO

MF-93 BOARD



MODE CONTROL MODE CONTROL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27
MF-93 BOARD
RM-40 BOARD
IC201 MB89794B
IC202 EEP ROM
IC203 RESET
IC204 POWER FAIL
IC205 LEVEL METER DRIVE
IC301 REMOTE CONTROL RECIEVER
ND201 FIP
CN104 6P
TO MA-62 BOARD CN513 CN517 (See page 58.)
CN105 6P
TO MA-62 BOARD CN516 (See page 58.)
CN103 4P
TO MA-62 BOARD CN514 (See page 57, 58.)
CN102 11P
CN202 22P
TO MA-62 BOARD CN512 (See page 57.)
CN203 20P
TO MA-62 BOARD CN511 (See page 57.)
CN204 9P
CN201 11P
CN206 12P
CN207 3P
CN301 9P
CHASSIS GND
PHONES
LEVEL METER(R/L)
SLV-676UC
SLV-575UC
AUTO TRACKING
SYNCRO EDIT
AUDIO INSERT
VIDEO INSERT
HIGH SPEED REWIND
❶
❷

no mark : REC/PB mode.
( ) : REC mode.
( ) : PB mode.
* : Impossible to measure the voltage at the marked points.

MODE CONTROL MODE CONTROL

MF-92 (FUNCTION) MF-93 (MODE CONTROL) RM-40 (IR RECIEVER, LED), SH-10 (SHUTTLE SW), TK-11 (RELAY) PRINTED WIRING BOARDS

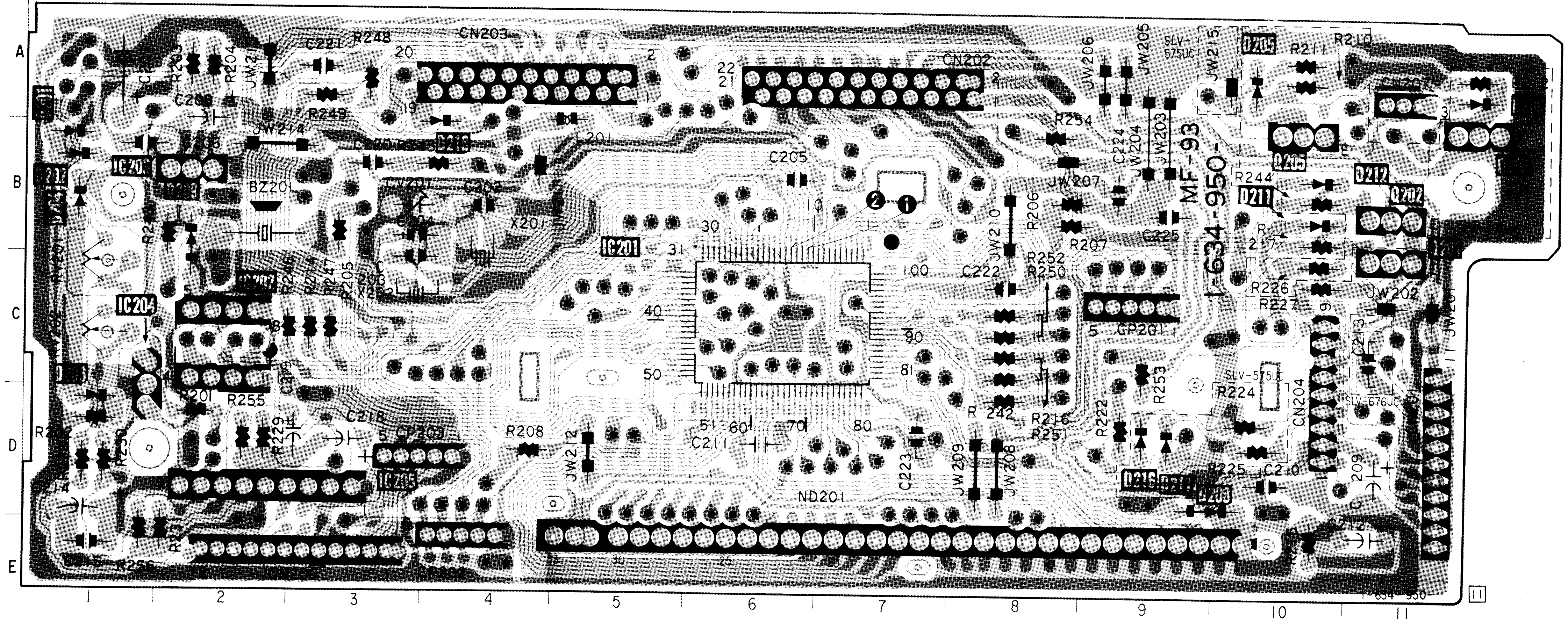
—Ref. No. MF-92, 93, RM-40, SH-10 and TK-11 BOARDS : 6000 series—

62

page 57.)

age 57.)

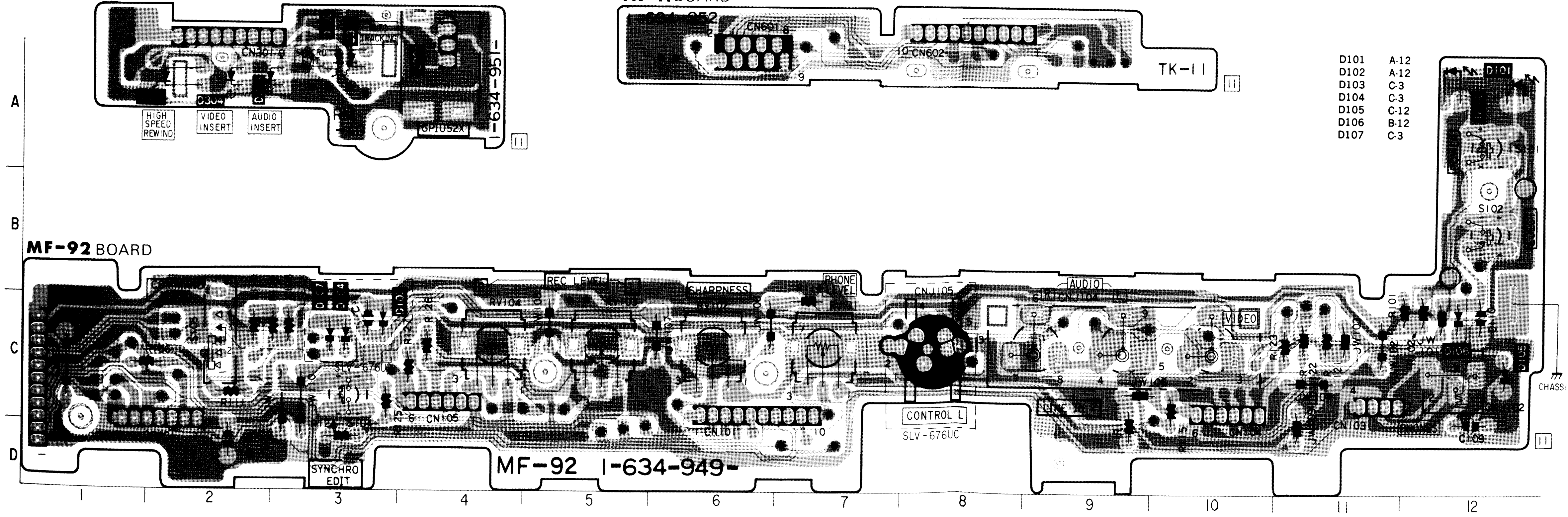
MF-93 BOARD


A
B
C
D
E
1
2
3
4
5
6
7
8
9
10
11
CN203
CN202
CN207
CN204
CN205
CN206
IC201
IC202
IC203
IC204
IC205
BZ201
X201
X202
CV201
ND201
CP201
CP202
CP203
RV201
RV202
D205
MF-93
1-634-950-
SLV-575UC
SLV-676UC

RM-40 BOARD

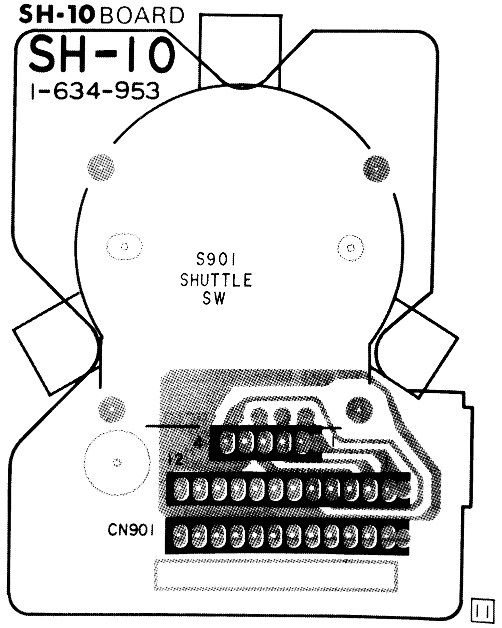
TK-11 BOARD

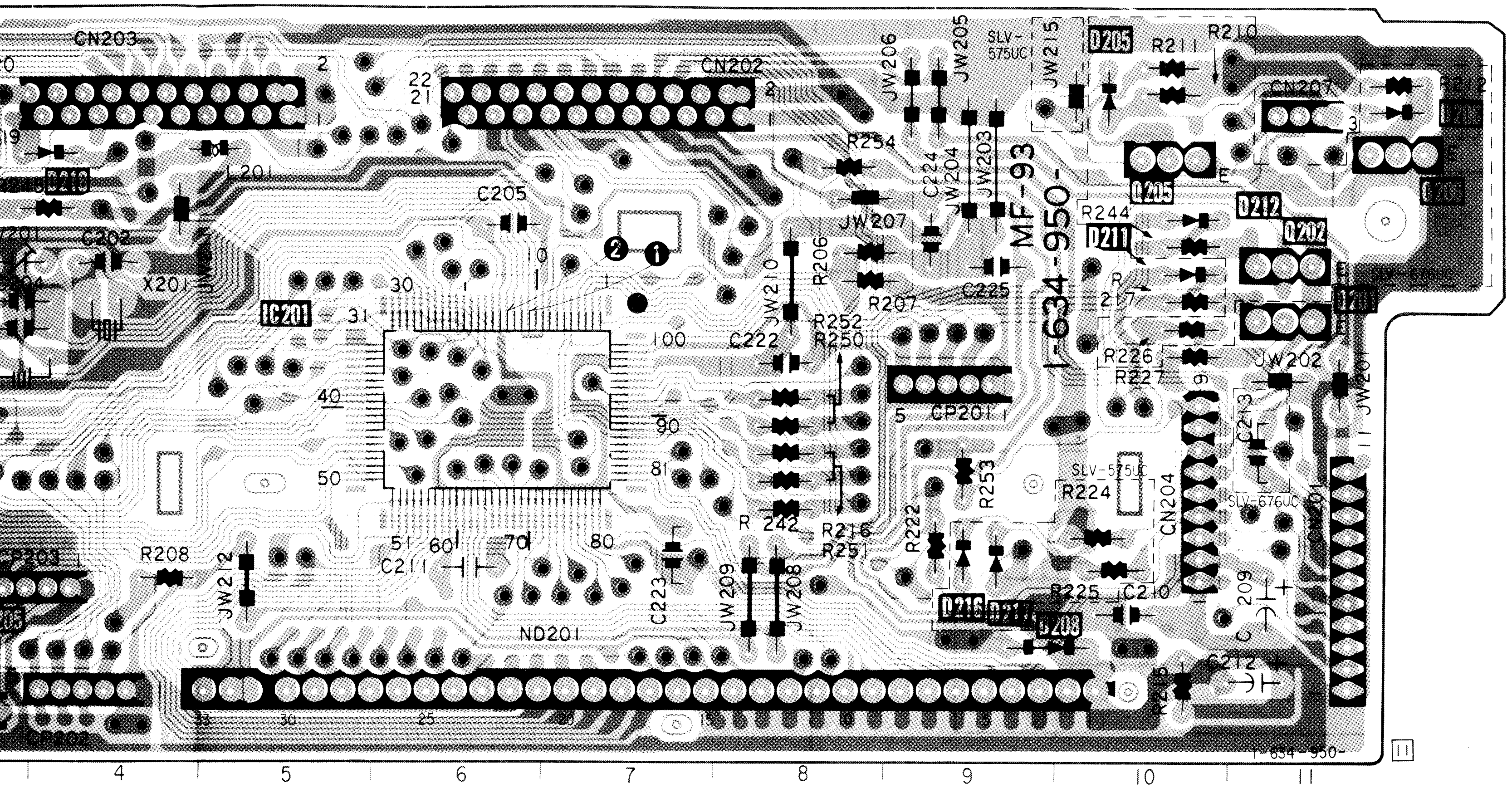
MF-92 BOARD


A
B
C
D
1
2
3
4
5
6
7
8
9
10
11
12
CN301
HIGH SPEED REWIND
VIDEO INSERT
AUDIO INSERT
TRACKING
GP1U52X
1-634-951-
1-634-952
CN601
CN602
TK-11
REC LEVEL
SHARPNESS
PHONE LEVEL
AUDIO
VIDEO
SYNCHRO EDIT
CONTROL L
SLV-676UC
CN101
CN103
CN104
CN105
S101
S102
CHASSIS
MF-92
1-634-949-

D101	A-12
D102	A-12
D103	C-3
D104	C-3
D105	C-12
D106	B-12
D107	C-3

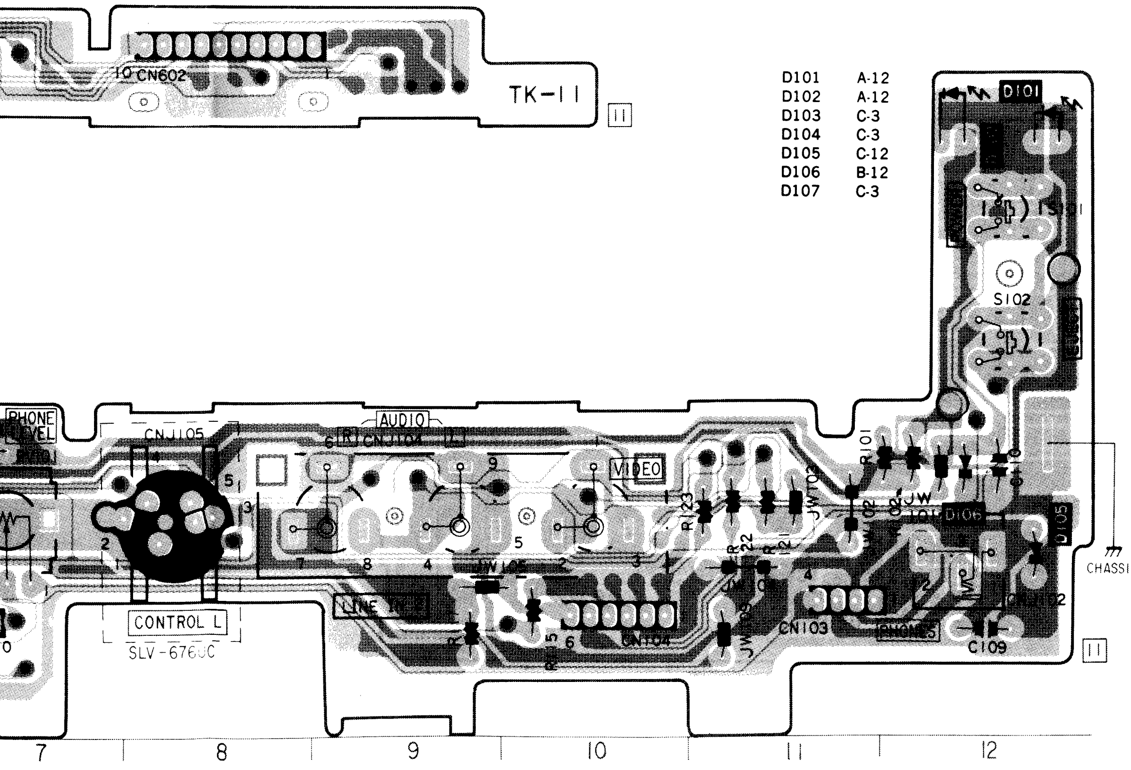
SH-10 BOARD


SH-10
1-634-953
S901
SHUTTLE
SW
CN901

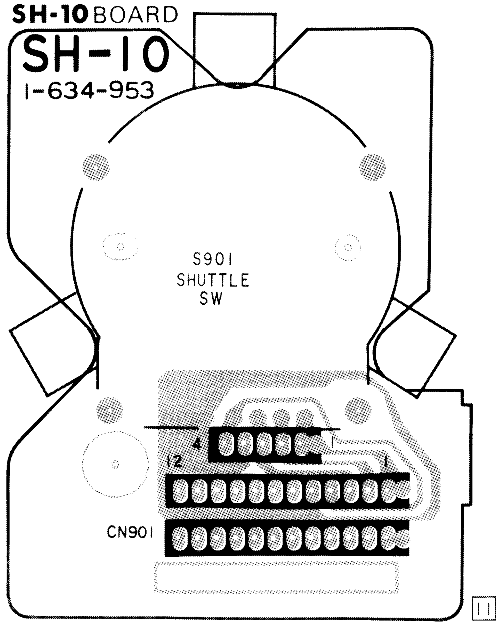

CN203
CN202
CN207
CN204
CN201
CP201
CP202
CP203
IC201
ND201
X201
MF-93
1-634-950-
SLV-575UC
SLV-676UC
D205
D206
D211
D212
D216
D217
D208
Q205
Q202
Q201
Q206
R211
R210
R212
R254
R244
R206
R207
R252
R250
R242
R216
R251
R222
R253
R224
R226
R227
R225
R208
C205
C202
C224
C225
C222
C223
C211
C213
C210
C209
C212
JW206
JW205
JW215
JW204
JW203
JW207
JW210
JW209
JW208
JW212
JW202
JW201
4
5
6
7
8
9
10
11

D201	B-1
D202	B-1
D203	D-1
D204	B-1
D205	A-10
D206	A-11
D208	D-9
D209	B-2
D211	B-10
D212	B-10
D216	D-9
D217	D-9
D218	B-4
IC201	C-6
IC202	C-2
IC203	B-2
IC204	C-1
IC205	D-3
Q201	B-11
Q202	B-11
Q205	B-10
Q206	B-11

D101	A-12
D102	A-12
D103	C-3
D104	C-3
D105	C-12
D106	B-12
D107	C-3

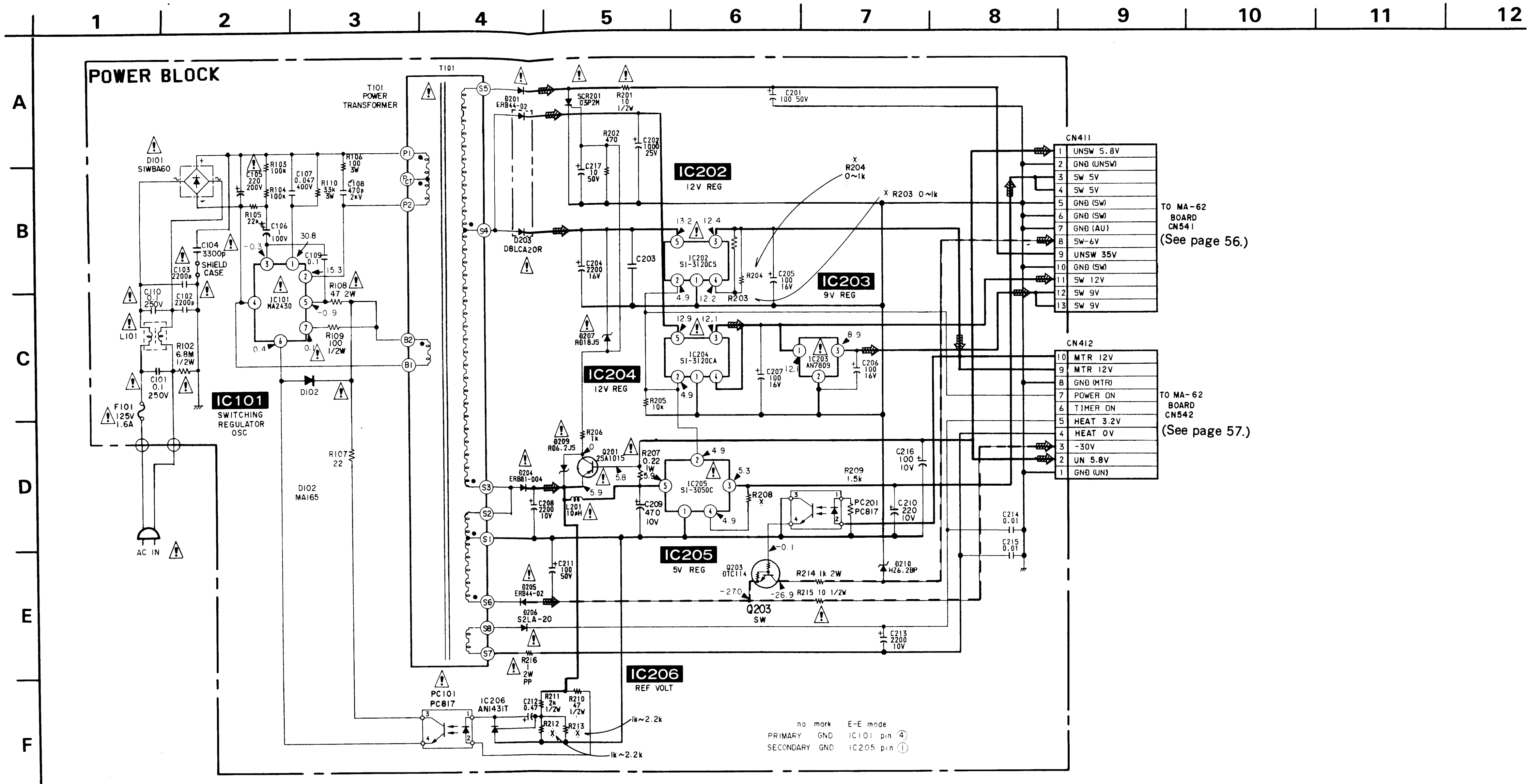

TK-11
CN602
D101
S101
S102
PHONE LEVEL
AUDIO
VIDEO
CN105
CN104
CN103
CN102
D106
D105
R101
C109
PHONES
LINE IN-2
CONTROL L
SLV-676UC
CHASSIS
7
8
9
10
11
12

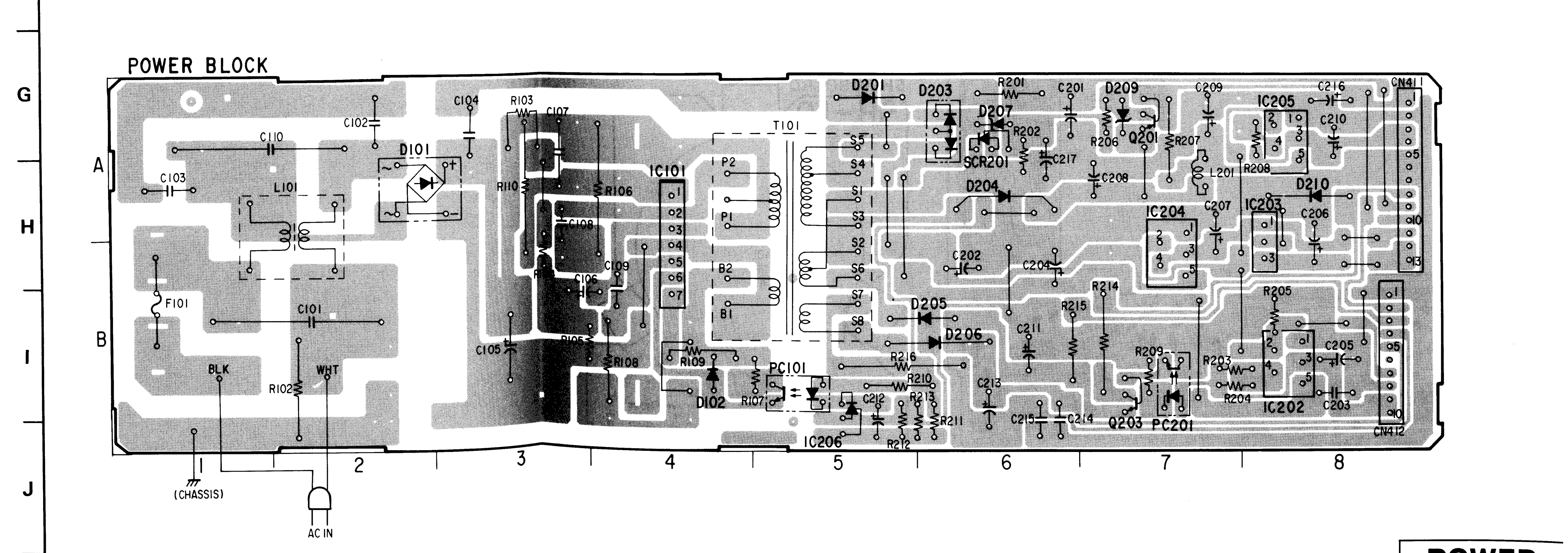
SH-10 BOARD


SH-10
1-634-953
S901
SHUTTLE
SW
CN901

POWER BLOCK PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

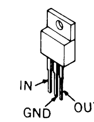
—Ref. No. POWER BLOCK : 7000 series—


1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
POWER BLOCK
T101 POWER TRANSFORMER
D101 S1WBA60
IC101 SWITCHING REGULATOR OSC
IC101 MA2430
F101 125V 1.6A
AC IN
D102 MA165
PC101 PC817
IC206 AN1431T
IC202 12V REG
IC202 SI-3120CS
IC203 9V REG
IC203 AN7809
IC204 12V REG
IC204 SI-3120CA
IC205 5V REG
IC205 SI-5050C
IC206 REF VOLT
Q201 2SA1015
Q203 DTC114 SW
PC201 PC817
SCR201 05P2M
D201 ERB44-02
D203 D8LCA20R
D204 ERB81-004
D205 ERB44-02
D206 S2LA-20
D207 RD18JS
D209 RD6.2JS
D210 HZ6.2BP
CN411
1 UNSW 5.8V
2 GND (UNSW)
3 SW 5V
4 SW 5V
5 GND (SW)
6 GND (SW)
7 GND (AU)
8 SW-6V
9 UNSW 35V
10 GND (SW)
11 SW 12V
12 SW 9V
13 SW 9V
TO MA-62 BOARD CN541 (See page 56.)
CN412
10 MTR 12V
9 MTR 12V
8 GND (MTR)
7 POWER ON
6 TIMER ON
5 HEAT 3.2V
4 HEAT 0V
3 -30V
2 UN 5.8V
1 GND (UN)
TO MA-62 BOARD CN542 (See page 57.)
no mark E-E mode
PRIMARY GND IC101 pin ④
SECONDARY GND IC205 pin ①

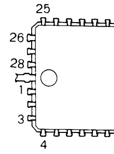

G
H
I
J
POWER BLOCK
A
B
1
2
3
4
5
6
7
8
(CHASSIS)
AC IN
BLK
WHT
IC101
T101
IC202
IC203
IC204
IC205
IC206
CN411
CN412
PC101
PC201

4-3. SEMI

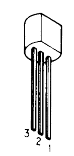
BA178M05



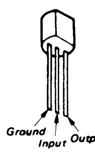
HA12115M



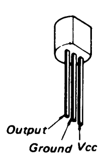
RC78L05A

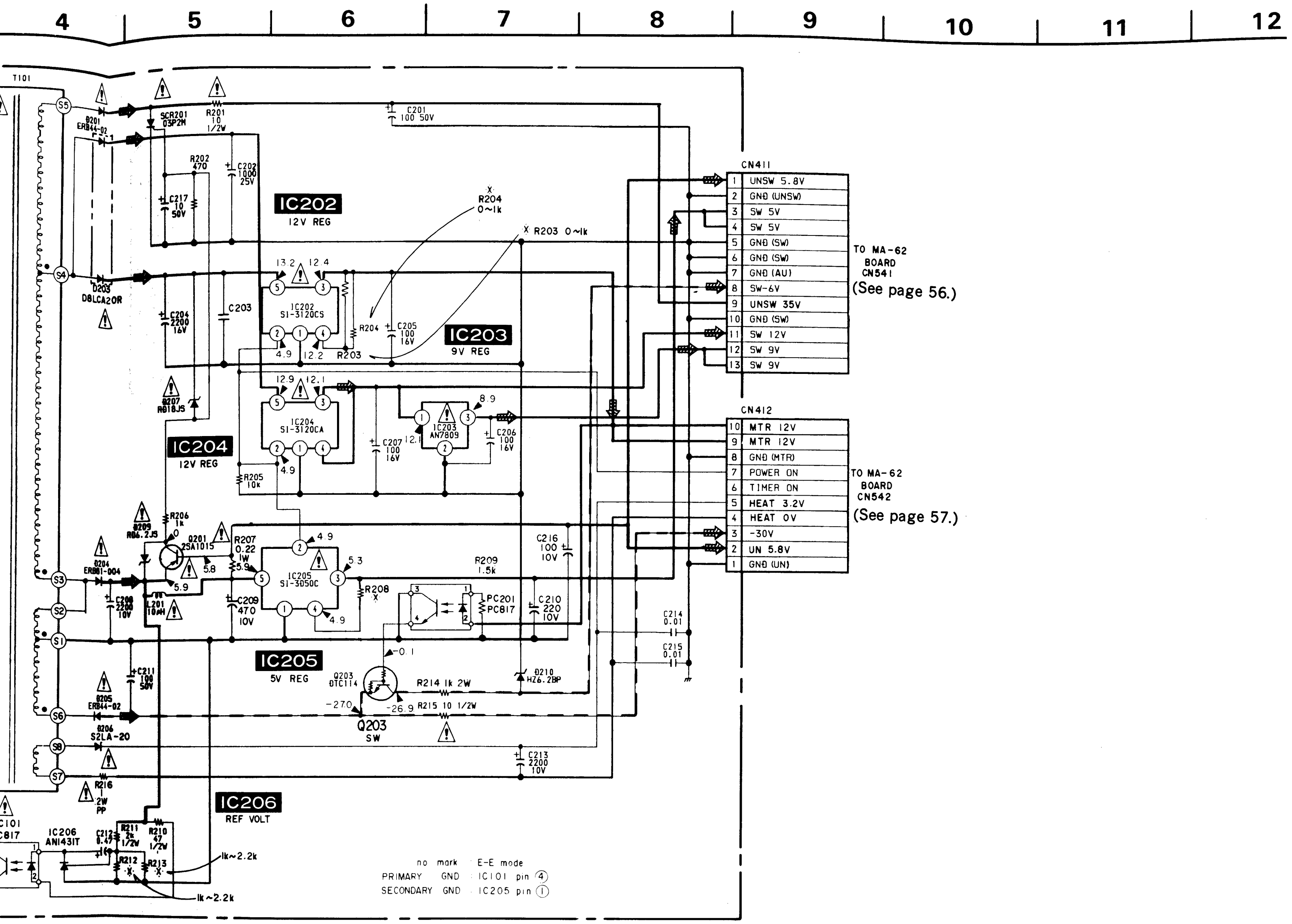


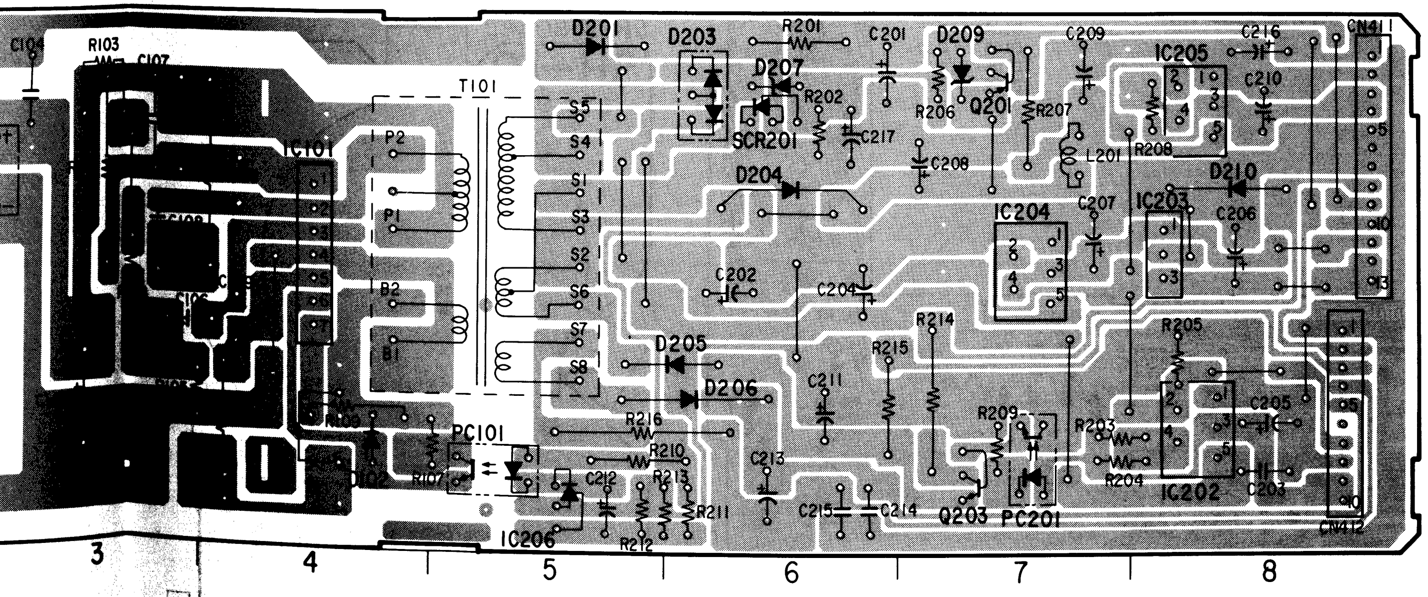
S-8053HN


Ground
Input
Outp

S-8054ALF

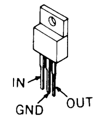

Output
Ground
Vcc


4
5
6
7
8
9
10
11
12
T101
S5
S4
S3
S2
S1
S6
S8
S7
D201 ERB44-02
SCR201 03P2M
R201 10 1/2W
C201 100 50V
R202 470
C202 1000 25V
C217 10 50V
IC202
12V REG
X R204 0~1k
X R203 0~1k
D203 D8LCA20R
C204 2200 16V
C203
13.2
12.4
IC202 SI-3120CS
R204
C205 100 16V
4.9
12.2
R203
IC203
9V REG
D207 RD18JS
12.9
12.1
IC204 SI-3120CA
C207 100 16V
IC203 AN7809
8.9
C206 100 16V
IC204
12V REG
R205 10k
D209 RD6.2JS
R206 1k
Q201 2SA1015
R207 0.22 1W
D204 ERB81-004
5.8
5.9
C208 2200 10V
L201 10µH
C209 470 10V
IC205 SI-3050C
5.3
R209 1.5k
C216 100 10V
R208 X
PC201 PC817
C210 220 10V
C214 0.01
C215 0.01
C211 100 50V
IC205
5V REG
Q203 DTC114
-0.1
R214 1k 2W
D210 HZ6.2BP
-27.0
-26.9
R215 10 1/2W
Q203
SW
D205 ERB44-02
D206 S2LA-20
C213 2200 10V
R216 1 2W PP
IC206
REF VOLT
IC101 PC817
IC206 AN1431T
C212 0.47
R211 2k 1/2W
R210 47 1/2W
R212 X
R213 X
1k~2.2k
1k~2.2k
no mark : E-E mode
PRIMARY GND : IC101 pin ④
SECONDARY GND : IC205 pin ①
CN411
1 UNSW 5.8V
2 GND (UNSW)
3 SW 5V
4 SW 5V
5 GND (SW)
6 GND (SW)
7 GND (AU)
8 SW-6V
9 UNSW 35V
10 GND (SW)
11 SW 12V
12 SW 9V
13 SW 9V
TO MA-62 BOARD CN541
(See page 56.)
CN412
10 MTR 12V
9 MTR 12V
8 GND (MTR)
7 POWER ON
6 TIMER ON
5 HEAT 3.2V
4 HEAT 0V
3 -30V
2 UN 5.8V
1 GND (UN)
TO MA-62 BOARD CN542
(See page 57.)

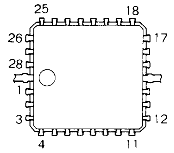

C104
R103
C107
IC101
T101
P2
P1
B2
B1
PC101
R107
IC206
S5
S4
S1
S3
S2
S6
S7
S8
D201
D203
D207
SCR201
R201
R202
C217
C201
D209
R206
Q201
R207
C209
C208
L201
R208
IC205
C216
C210
D210
C206
IC203
C207
IC204
D204
C202
C204
R214
R215
D205
D206
C211
R216
R210
R213
R211
R212
C212
C213
C215
C214
Q203
PC201
R209
R203
R204
R205
IC202
C205
C203
CN411
CN412
3
4
5
6
7
8

4-3. SEMICONDUCTORS

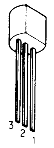
BA178M05



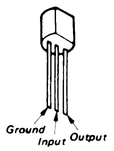
HA12115MP


25
18
26
17
28
1
3
12
4
11

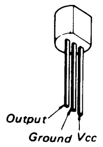
RC78L05A



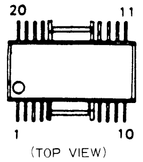
S-8053HNB


Ground
Input
Output

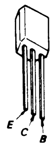
S-8054ALR


Output
Ground
Vcc

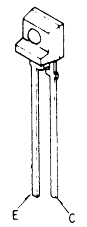
TA8424F


20
11
1
10
(TOP VIEW)

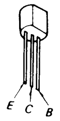
DTA114ES
DTA144ES
DTC114ES
DTC144ES
2SC1740S
2SC2603



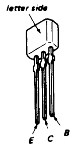
PT483F1



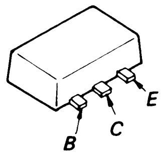
2SA933S



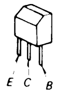
2SA1175
2SA1309A
2SC3311A
2SD1020


letter side
E
C
B

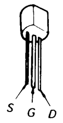
2SB798



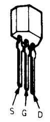
2SD774



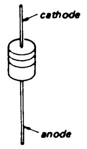
2SK105A-10



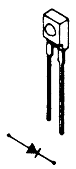
2SK381-A



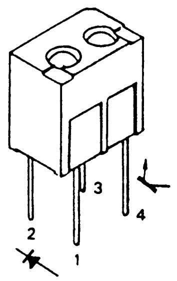
ERA82-004
RD5.1ESB2
RD6.2ESB2
RD6.8ESB2
RD13ESB2
RD33ESB2
1SS119
11ES2


cathode
anode

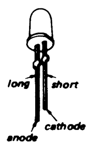
G1-451V



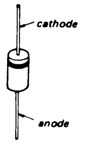
PS6002



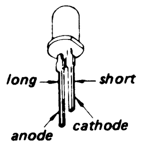
PY5504S-1


long
short
cathode
anode

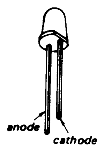
RD4.7EL2
RD5.1EL2


cathode
anode

SEL1810A


long
short
anode
cathode

SLR-34MC3
SLR-34VC3


anode
cathode

SECTION 5
EXPLODED VIEWS

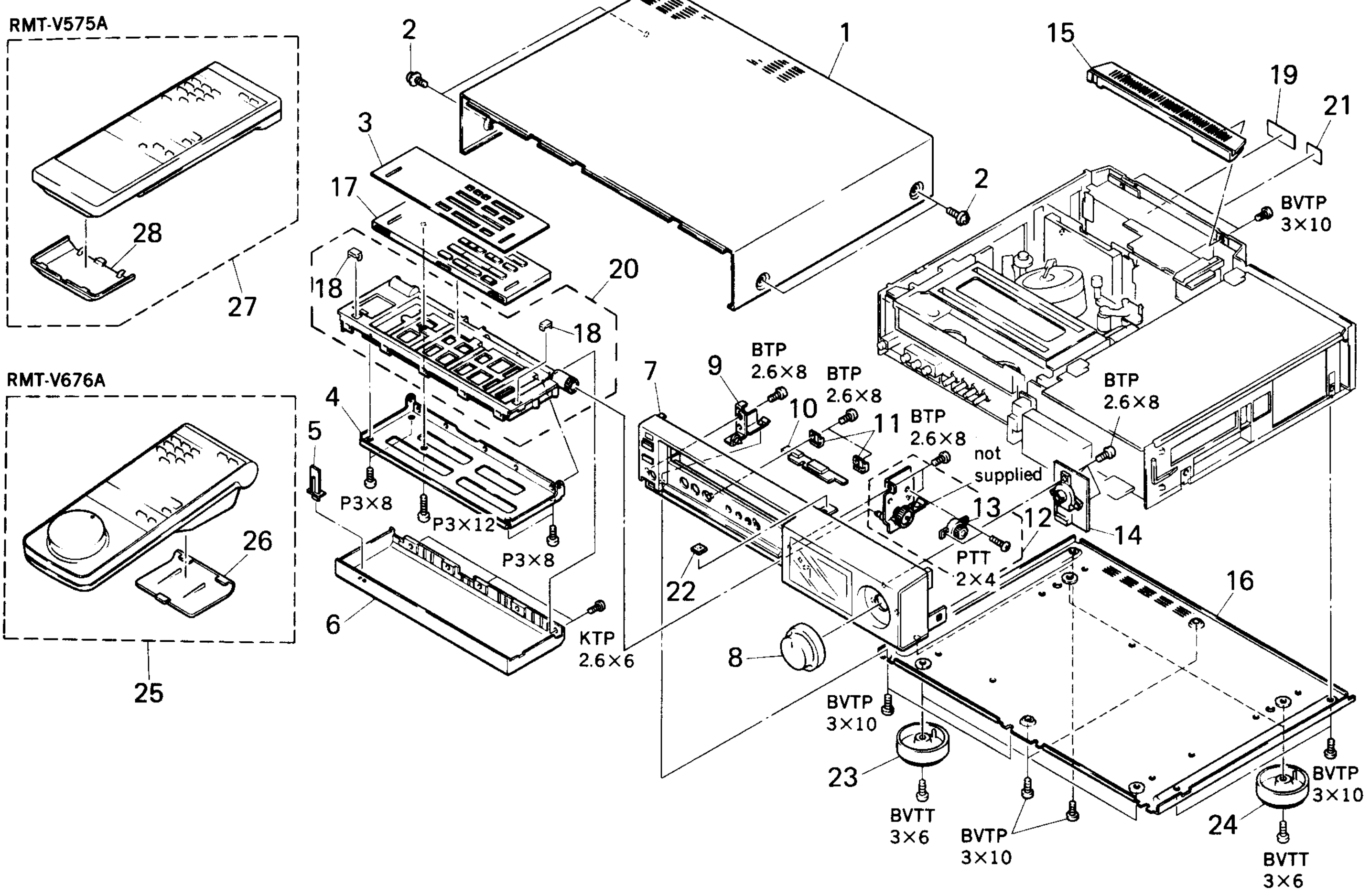
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

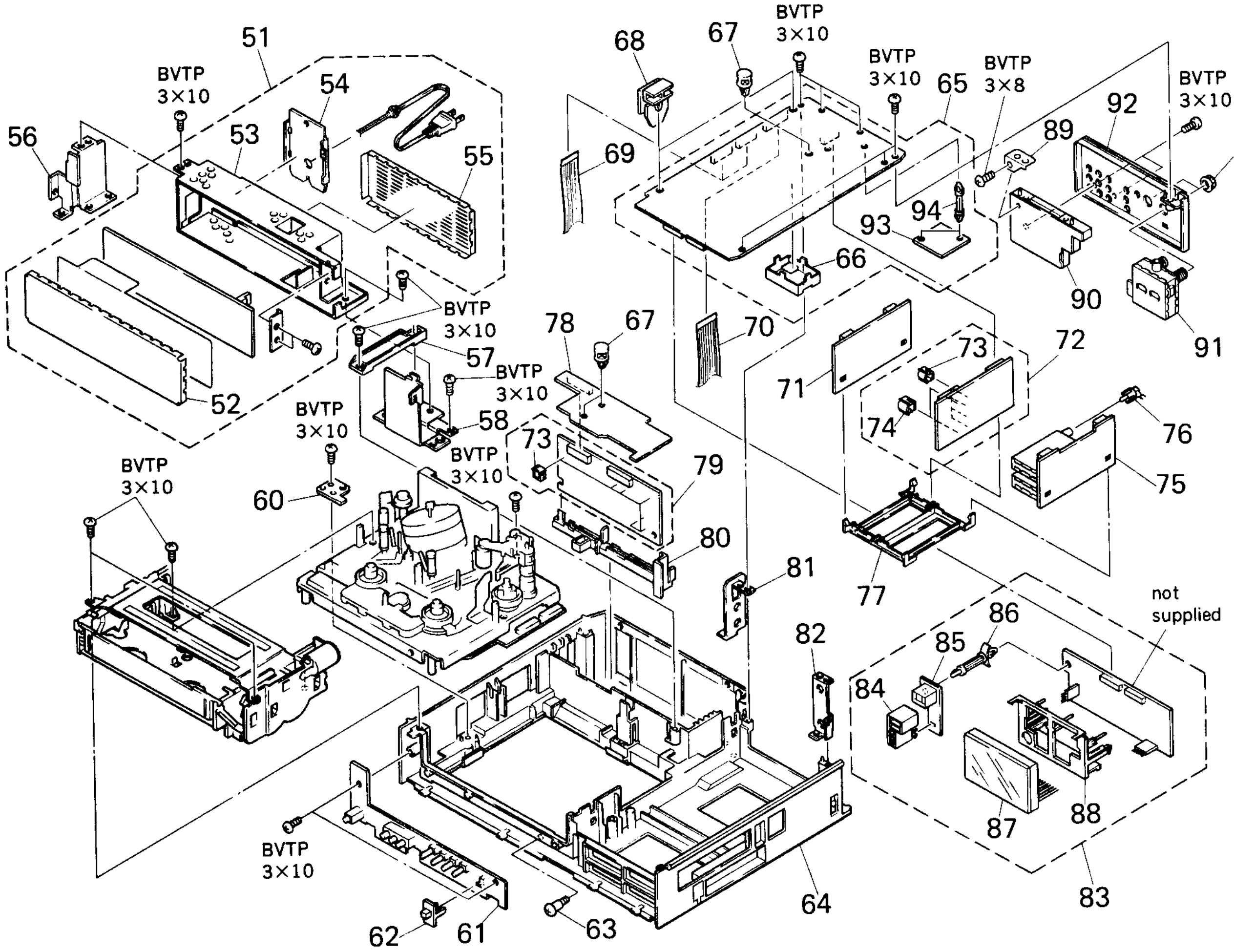
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

5-1. FRONT PANEL AND CABINET ASSEMBLIES



Ref.No	Part No.	Description	Remark
1	3-743-670-01	COVER, UPPER (SLV-676 UC)	
1	3-743-670-11	COVER, UPPER (SLV-575 UC)	
2	3-710-901-11	SCREW (3X8), TAPPING	
3	3-743-668-01	PLATE, ORNAMENTAL, DOOR (SLV-575 UC)	
3	3-743-668-11	PLATE, ORNAMENTAL, DOOR (SLV-676 UC)	
4	*3-743-658-01	PLATE, FULCRUM, DOOR	
5	3-743-650-01	COVER, POWER LAMP	
6	X-3743-540-1	DOOR ASSY, FRONT (SLV-575 UC)	
6	X-3743-541-1	DOOR ASSY, FRONT (SLV-676 UC)	
7	X-3743-542-1	PANEL ASSY, FRONT (SLV-575 UC)	
7	X-3743-543-1	PANEL ASSY, FRONT (SLV-676 UC)	
8	3-743-666-01	KNOB, SHUTTLE (SLV-575 UC)	
8	3-743-666-11	KNOB, SHUTTLE (SLV-676 UC)	
9	X-3743-536-1	PLATE (L) ASSY, FULCRUM	
10	*1-634-952-11	TK-11 BOARD	
11	*3-743-640-02	RETAINER, PC BOARD	
12	A-6759-486-A	PLATE (R) BLOCK ASSY, FULCRUM	13
13	3-319-224-21	DAMPER, SMALL	
14	*1-634-953-11	SH-10 BOARD	
15	3-743-644-01	COVER, POWER	
16	3-743-671-01	PLATE, BOTTOM	
17	1-466-345-11	SWITCH BLOCK, CONTROL	
18	*3-774-004-01	CATCHER	
19	*3-743-662-01	LABEL, MODEL NUMBER(NO.4) (SLV-575 UC)	
19	*3-743-663-01	LABEL, MODEL NUMBER (NO.4) (SLV-676 UC)	
20	X-3743-549-1	PANEL ASSY, ORNAMENTAL, DOOR (SLV-676 UC)	18
20	X-3743-550-1	PANEL ASSY, ORNAMENTAL, DOOR (SLV-575 UC)	18
21	*3-704-386-01	LABEL, TELESONIC	
22	9-911-841-XX	CUSHION (B)	
23	3-744-272-11	FOOT	
24	3-744-272-01	FOOT	
25	1-465-474-11	REMOTE COMMANDER (SLV-676 UC)	26
26	3-746-029-01	COVER, BATTERY (SLV-676 UC)	
27	1-465-473-11	REMOTE COMMANDER (SLV-575 UC)	28
28	3-744-081-11	COVER, BATTERY (SLV-575 UC)	

5-2. MAIN CHASSIS ASSEMBLY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BVTP 3×10
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BVTP 3×10
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BVTP 3×10
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BVTP 3×10
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BVTP 3×8
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BVTP 3×10
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77
not supplied
86
85
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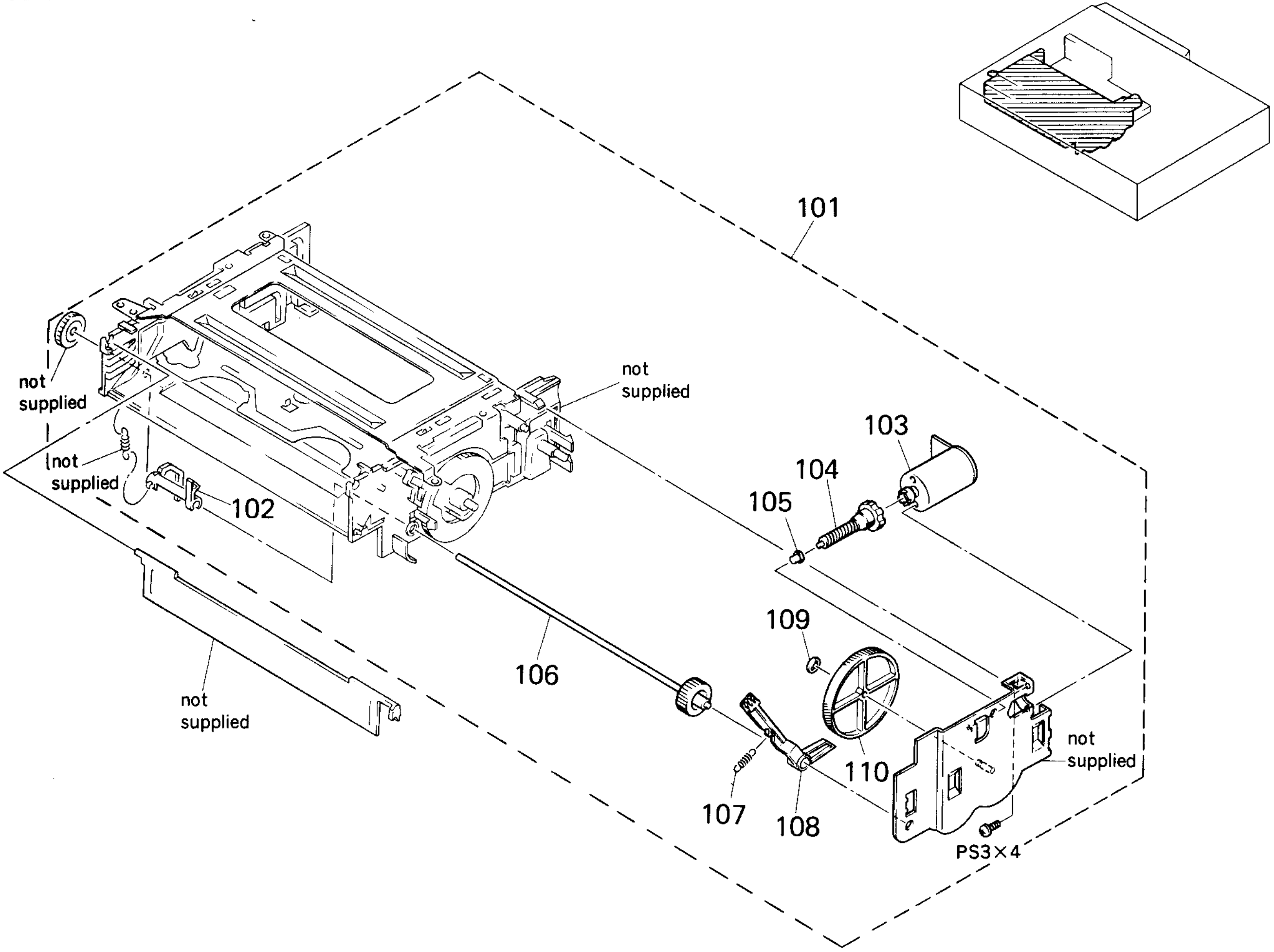
87
88
83
64
BVTP 3×10
62
61
63

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remark
51	⚠.1-413-532-11	SWITCHING BLOCK (POWER BLOCK)	52-55
52	*3-743-645-01	LID, UPPER	
53	*3-743-649-01	CASE, MAIN	
54	*3-743-648-11	PANEL, CONNECTOR	
55	*3-743-646-01	PLATE, BOTTOM	
56	*3-743-643-01	BRACKET (LEFT), POWER	
57	*3-743-641-01	RETAINER (RIGHT), YC	
58	*3-743-642-01	BRACKET (RIGHT), POWER	
59	3-682-691-00	NUT, WASHER HEXAGON	
60	3-729-938-01	RETAINER (LEFT), MD	
61	*A-6725-804-A	MF-92 BOARD, COMPLETE (SLV-575 UC)	
61	*A-6725-806-A	MF-92 BOARD, COMPLETE (SLV-676 UC)	
62	3-743-636-01	KNOB, SLIDE	
63	3-741-948-01	SCREW (3), SPECIAL (+) TAPPING	
64	*A-6771-254-A	FRAME BLOCK ASSY	
65	*A-6717-573-A	MA-62 BOARD, COMPLETE (SLV-575 UC)	66
65	*A-6717-574-A	MA-62 BOARD, COMPLETE (SLV-676 UC)	66,93,94
66	*3-743-679-01	CASE,SHIELD, AU	
67	3-682-057-21	SPACER (SMALL)	
68	*3-743-678-01	HINGE, PC BOARD	
69	1-575-745-11	WIRE, FLAT TYPE (19 CORE)	
70	1-575-746-11	WIRE, FLAT TYPE (22 CORE)	
71	*A-6727-190-A	CG-10 BOARD, COMPLETE	
72	*A-6713-379-A	HF-9 BOARD, COMPLETE	73,74
73	3-729-971-01	COVER, VOLUME	
74	3-738-216-01	COVER, VOLUME	
75	*A-6721-334-A	TU-120 BOARD, COMPLETE	
76	1-558-924-41	CABLE, PIN	
77	*3-743-673-01	HOLDER, PC BOARD	
78	*1-634-956-11	VI-91 BOARD	
79	*A-6727-207-A	YC-59 BOARD, COMPLETE	73
80	*3-743-647-01	HOLDER, YC	
81	*3-743-675-01	PLATE (LEFT), GROUND, MA	
82	*3-743-676-01	PLATE (RIGHT), GROUND, MA	
83	*A-6725-803-A	MF-93 BOARD, COMPLETE (SLV-575 UC)	84-88
83	*A-6725-805-A	MF-93 BOARD, COMPLETE (SLV-676 UC)	84-88
84	*3-743-659-01	HOLDER, LED	
85	*1-634-951-11	RM-40 BOARD	
86	*3-682-419-51	HOLDER, P.C.B	
87	1-519-598-11	INDICATOR TUBE, FLUORESCENT	
88	*3-743-637-01	HOLDER, FL	
89	*3-743-677-01	PLATE, GROUND, RF	
90	1-537-290-11	TERMINAL BOARD (SLV-575 UC)	
90	1-537-290-21	TERMINAL BOARD (SLV-676 UC)	
91	⚠.1-466-164-11	MODULATOR, RF (RFU-1015)	
92	3-743-672-11	TERMINAL BOARD, INPUT OUTPUT (SLV-575 UC)	
92	3-743-672-31	TERMINAL BOARD, INPUT OUTPUT (SLV-676 UC)	
93	*1-635-225-11	SI-10 BOARD (SLV-676 UC)	
94	*3-682-419-41	HOLDER, P.C.B (SLV-676 UC)	

5-3. FL BLOCK ASSEMBLY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not supplied
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not supplied
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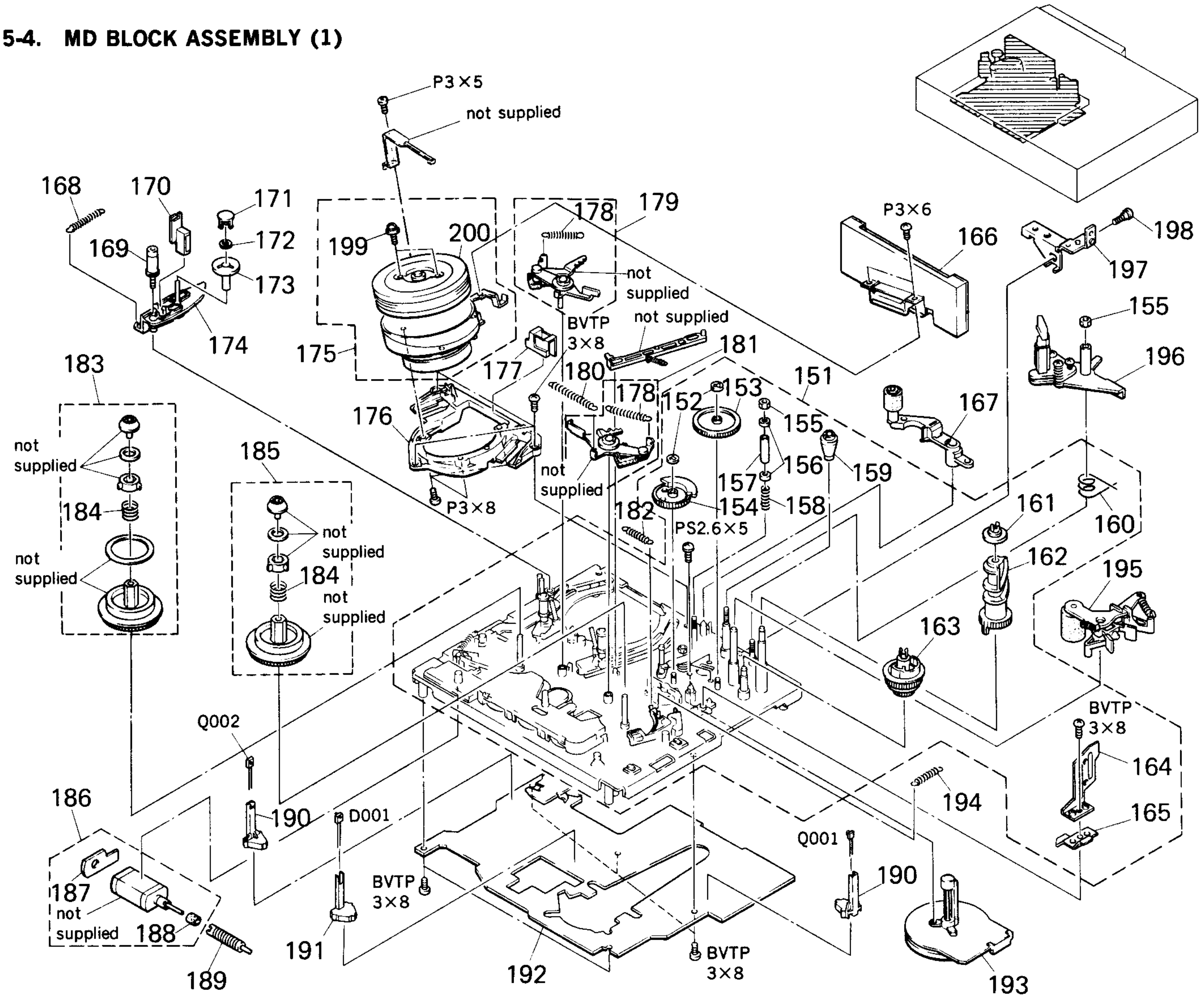
not supplied
107
108
PS3×4

Ref.No	Part No.	Description	Remark
101	A-6751-426-B	FL BLOCK ASSY(F3) (SLV-575 UC)	102-110
101	A-6751-426-C	FL BLOCK ASSY (F3) (SLV-676 UC)	
102	3-736-163-01	LEVER, ERASING PROTECTION (SLV-575 UC)	
103	X-3727-784-1	MOTOR ASSY(CM-14) (LOADING)(M904)(SLV-575 UC)	
104	3-736-100-01	GEAR (FL), WORM (SLV-575 UC)	
105	3-716-144-02	RETAINER, WORM (SLV-575 UC)	
106	X-3727-775-2	GEAR (RIGHT)ASSY, MIDWAY (SLV-575 UC)	
107	3-738-285-01	SPRING, TENSION (SLV-575 UC)	
108	3-736-167-01	ARM, DOOR SWITCHING (SLV-575 UC)	
109	3-696-510-01	WASHER(3), STOPPER (SLV-575 UC)	
110	3-736-164-01	WHEEL(FL), WORM (SLV-575 UC)	

5-4. MD BLOCK ASSEMBLY (1)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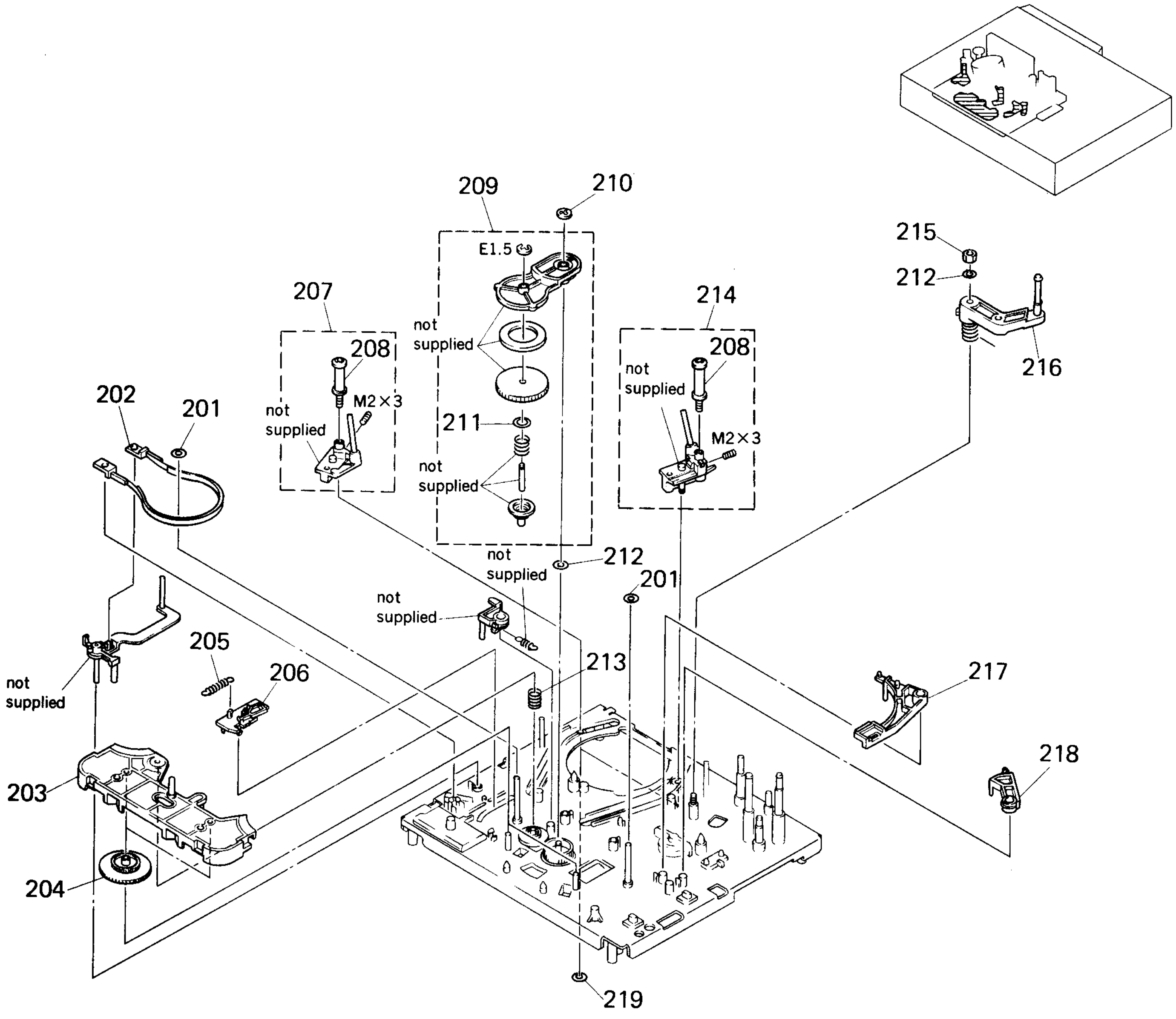
177
180
178
176
P3×8
not supplied
152
153
151
155
157
156
154
158
159
182
PS2.6×5
P3×6
166
198
197
155
196
167
161
160
162
195
163
183
not supplied
184
not supplied
185
not supplied
184
not supplied
not supplied
Q002
186
187
not supplied
188
189
190
D001
BVTP 3×8
191
192
BVTP 3×8
Q001
190
193
BVTP 3×8
164
165
194

Ref.No	Part No.	Description	Remark
151	* A-6773-084-A	MD BLOCK ASSY	152-165
152	3-669-595-00	WASHER (2), STOPPER	
153	3-736-116-01	GEAR, COMMUNICATION	
154	3-736-143-01	GEAR, RVS CAM	
155	3-736-041-01	NUT (N3), NYLON	
156	3-736-733-01	FLANGE, 7 GUIDE	
157	3-736-730-01	SLEEVE, 7 GUIDE	
158	3-736-729-01	SPRING, COMPRESSION	
159	3-738-250-01	SCREW, AC ADJUSTMENT	
160	3-736-042-01	SPRING, TORSION	
161	3-736-111-01	STOPPER	
162	3-736-136-01	CAM, ELEVATOR	
163	3-736-135-01	GEAR, PRESS CAM	
164	3-736-109-01	PLATE, OPEN, LID	
165	3-744-227-01	SPRING (ATOM), FL GROUND	
166	* A-6727-101-A	RP-63 BOARD, COMPLETE (SLV-575 UC)	
166	* A-6727-195-A	RP-63 BOARD, COMPLETE (SLV-676 UC)	
167	A-6747-264-A	ARM BLOCK ASSY, C ROLLER	
168	3-736-745-01	SPRING	
169	X-3727-788-1	ROLLER ASSY, GUIDE, No.2	
170	1-543-647-11	HEAD, FE	
171	3-736-082-01	RETAINER, TS THRUST	
172	3-741-925-01	RING, RETAINING	
173	X-3727-771-1	STABLILIZER ASSY, TAPE	
174	X-3727-767-1	BASE ASSY, STABILIZER	
175	8-848-515-11	DRUM ASSY (DZH-11A-R)(SLV-676 UC)	199,200
175	8-848-518-01	DRUM ASSY (DZH-14A-R) (SLV-575 UC)	199,200
176	X-3727-791-5	BASE ASSY, DRUM	
177	3-736-795-01	STOPPER	
178	3-738-220-01	SPRING (MAIN BRAKE 2), TENSION	
179	X-3733-336-2	BRAKE ASSY (2) (AT), S	178
180	3-738-221-01	SPRING (MAIN BRAKE 1), TENSION	
181	X-3729-926-1	BRAKE ASSY (2), T	178
182	3-736-024-01	SPRING, TENSION	
183	X-3729-935-3	TABLE ASSY, REEL, SUPPLY	184
184	3-739-621-01	SPRING, COMPRESSION	
185	X-3727-798-1	TABLE ASSY, REEL	184
186	X-3733-302-1	MOTOR ASSY, CAM (M903)	187,188
187	* 1-633-460-11	CA-41 BOARD	
188	3-696-388-01	RUBBER, JOINT	
189	3-733-395-01	GEAR (CAM), WORM	
190	3-736-149-01	HOLDER, ST SENSOR	
191	* 3-736-144-01	HOLDER, LED	
192	* A-6754-066-A	MD-49 BOARD, COMPLETE	
193	8-835-394-01	MOTOR, DC U-26F (M902)	
194	3-736-025-01	SPRING (REV BRAKE), TENSION	
195	X-3727-770-1	PINCH ROLLER BLOCK ASSY	
196	A-6761-129-A	HEAD BLOCK ASSY, ACE	
197	* 3-738-249-01	PLATE, FIXED, MD	
198	3-736-055-01	SCREW (3X8), TAPPING	
199	2-643-205-01	SCREW, (PSW) 3X8	
200	8-848-528-01	DRUM ASSY, ROTARY UPPER (DZR-11-R) (SLV-676 UC)	
200	8-848-529-01	DRUM ASSY, ROTARY UPPER (DZR-14-R) (SLV-575 UC)	

5-5. MD BLOCK ASSEMBLY (2)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M2×3
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not supplied
not supplied
212
201
not supplied
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213
217
218
not supplied
203
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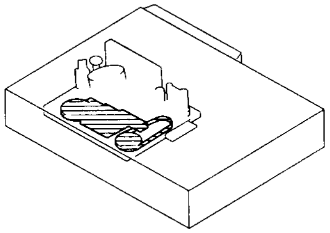
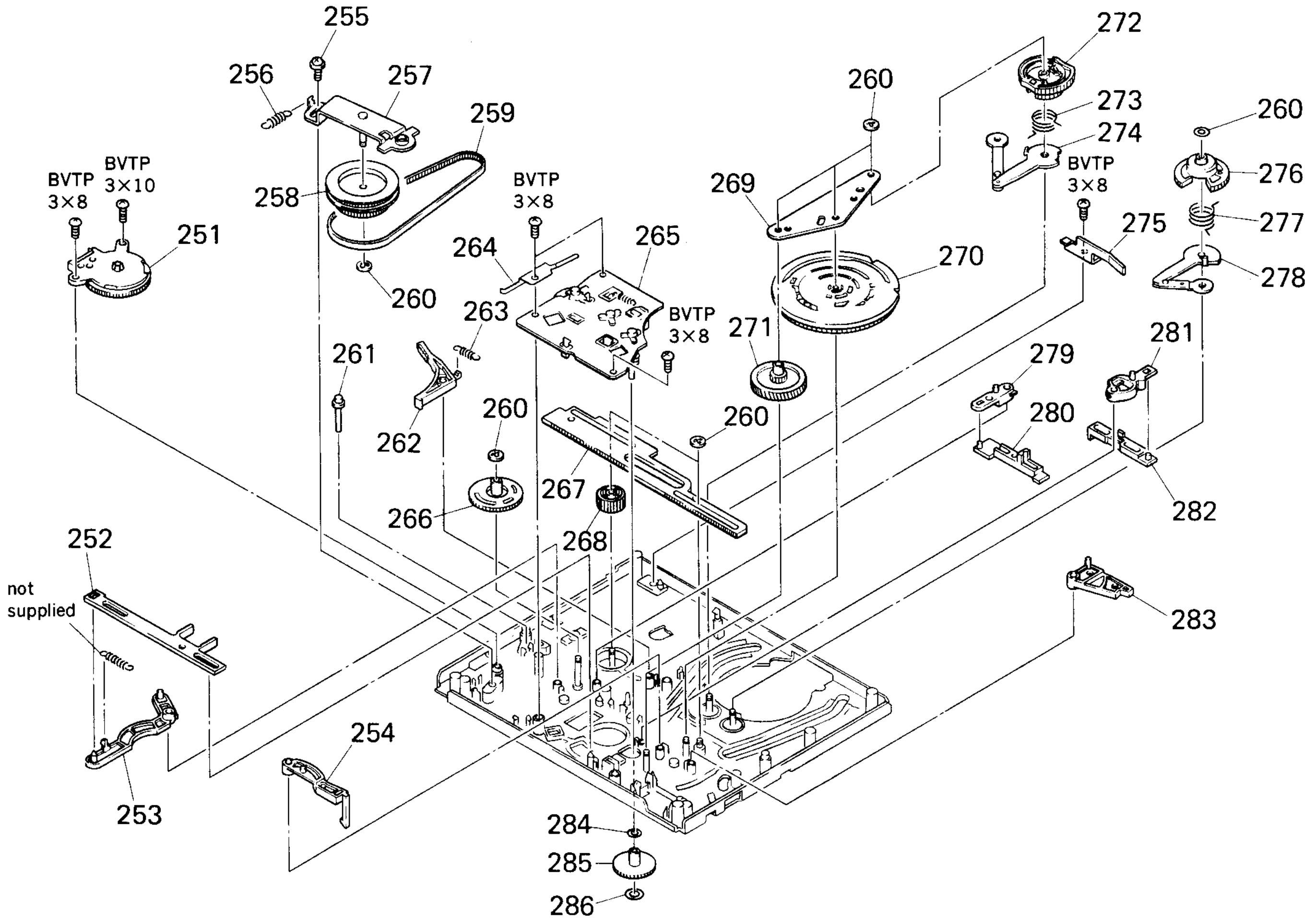
219

Ref.No	Part No.	Description	Remark
201	3-738-212-21	RETAINER, THRUST, REEL TABLE	
202	X-3727-797-1	BAND ASSY, TENSION REGULATOR	
203	3-736-172-02	RELEASE, LOCK, REEL	
204	X-3727-795-1	GEAR ASSY, RELAY	
205	3-738-284-01	SPRING, TENSION	
206	A-6759-483-A	TAKE-UP BLOCK ASSY (AT), S	
207	X-3727-786-1	SHUTTLE (LEFT) ASSY	208
208	X-3733-301-1	ROLLER ASSY, GUIDE	
209	X-3727-776-1	ARM ASSY, PENDULUM	211
210	3-669-595-00	WASHER (2), STOPPER	
211	3-736-069-01	RETAINER, SPRING	
212	3-701-438-11	WASHER, 2.5	
213	3-736-020-11	SPRING, COMPRESSION	
214	X-3727-787-1	SHUTTLE (RIGHT) ASSY	208
215	3-736-740-01	NUT (M2X0.25), NYLON	
216	X-3729-911-1	ARM ASSY, RVS	
217	X-3733-335-1	BRAKE ASSY (AT), T SOFT	
218	3-736-105-01	ARM, REV BRAKE	
219	3-736-073-01	SLIDER, POLYETHYLENE	

5-6. MD BLOCK ASSEMBLY (3)

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BVTP 3×8
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269
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BVTP 3×8
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252
not supplied
253
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Ref.No	Part No.	Description	Remark
251	1-571-920-11	SWITCH, ROTARY	
252	3-736-158-01	PLATE, SLIDE, PENDULUM	
253	X-3729-924-1	ARM, PENDULUM FUNCTION	
254	3-736-140-01	ARM, S TAKE-UP	
255	3-733-386-01	SCREW (3X8), WASHER	
256	3-736-089-01	SPRING, TENSION	
257	X-3727-761-1	ARM ASSY, ADJUSTMENT	
258	X-3727-782-1	PULLEY ASSY	
259	3-736-013-01	BELT, TIMING	
260	3-669-595-00	WASHER (2), STOPPER	
261	3-736-091-01	PIN, SWITCH	
262	X-3733-338-1	BRAKE ASSY (AT), CAP	
263	3-738-237-01	SPRING (CAP BRAKE), TENSION	
264	3-741-950-01	SPRING, LEAF, SC GROUND	
265	A-6739-084-A	CHASSIS BLOCK ASSY, SUB	
266	3-736-170-01	GEAR, RKB CAM	
267	3-736-177-01	PLATE, SLIDE, MODE	
268	3-733-394-01	GEAR, RVS RELAY	
269	3-733-396-01	HOLDER, CAM GEAR	
270	3-736-176-03	GEAR, CAM	
271	3-736-015-01	WHEEL (CAM), WORM	
272	3-736-148-01	GEAR (RIGHT), THREADING	
273	3-736-092-01	SPRING (RIGHT), TORSION	
274	X-3727-777-1	ARM (RIGHT) ASSY, THREADING	
275	3-736-744-01	RETAINER, ROTOR	
276	3-736-147-01	GEAR (LEFT), THREADING	
277	3-736-040-01	SPRING (LEFT), TORSION	
278	X-3727-778-1	ARM (LEFT) ASSY, THREADING	
279	3-736-016-01	ARM, LIMITER FUNCTION	
280	3-736-103-01	PLATE, SLIDE, LIMITER	
281	3-733-397-01	ARM, BRAKE FUNCTION	
282	3-733-398-01	PLATE, SLIDE, BRAKE	
283	3-736-142-01	ARM,TENSION REGULATOR FUNCTION	
284	3-736-074-01	RETAINER (SMALL), THRUST	
285	3-736-037-01	GEAR, REW	
286	3-736-069-01	RETAINER, SPRING	

SECTION 6
ELECTRICAL PARTS LIST

HF-9

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description			Remark
	*A-6713-379-A	HF-9 BOARD, COMPLETE (Ref. No. 4000 Series)			
		***************			
	3-738-216-01	COVER, VOLUME (RV002,008)			
	3-729-971-01	COVER, VOLUME (RV003,004,007,009)			
		CAPACITOR			
C001	1-124-239-00	ELECT	6.8MF	20%	16V
C002	1-130-487-00	MYLAR	0.022MF	5%	50V
C003	1-123-369-00	ELECT	4.7MF	20%	25V
C004	1-130-475-00	MYLAR	0.0022MF	5%	50V
C005	1-124-120-11	ELECT	220MF	20%	16V
C006	1-123-875-11	ELECT	10MF	20%	50V
C007	1-130-483-00	MYLAR	0.01MF	5%	50V
C009	1-124-925-11	ELECT	2.2MF	20%	50V
C011	1-123-875-11	ELECT	10MF	20%	50V
C012	1-123-875-11	ELECT	10MF	20%	50V
C013	1-126-101-11	ELECT	100MF	20%	16V
C014	1-123-875-11	ELECT	10MF	20%	50V
C015	1-126-157-11	ELECT	10MF	20%	16V
C016	1-124-791-11	ELECT	1MF	20%	50V
C017	1-124-925-11	ELECT	2.2MF	20%	50V
C018	1-126-101-11	ELECT	100MF	20%	16V
C019	1-123-875-11	ELECT	10MF	20%	50V
C020	1-123-875-11	ELECT	10MF	20%	50V
C022	1-124-925-11	ELECT	2.2MF	20%	50V
C024	1-130-483-00	MYLAR	0.01MF	5%	50V
C025	1-123-875-11	ELECT	10MF	20%	50V
C026	1-124-120-11	ELECT	220MF	20%	16V
C027	1-130-475-00	MYLAR	0.0022MF	5%	50V
C028	1-123-369-00	ELECT	4.7MF	20%	25V
C029	1-130-487-00	MYLAR	0.022MF	5%	50V
C030	1-124-239-00	ELECT	6.8MF	20%	16V
C031	1-126-094-11	ELECT	4.7MF	20%	25V
C032	1-124-791-11	ELECT	1MF	20%	50V
C033	1-124-791-11	ELECT	1MF	20%	50V
C034	1-130-471-00	MYLAR	0.001MF	5%	50V
C035	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C036	1-124-927-11	ELECT	4.7MF	20%	50V
C037	1-124-927-11	ELECT	4.7MF	20%	50V
C038	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C041	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C042	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C043	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C044	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C045	1-130-493-00	MYLAR	0.068MF	5%	50V
C050	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C051	1-130-483-00	MYLAR	0.01MF	5%	50V
C052	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C053	1-123-333-00	ELECT	100MF	20%	16V
C054	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C055	1-124-927-11	ELECT	4.7MF	20%	50V
C056	1-124-927-11	ELECT	4.7MF	20%	50V
C057	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V

Ref.No	Part No.	Description			Remark
C058	1-130-471-00	MYLAR	0.001MF	5%	50V
C059	1-124-791-11	ELECT	1MF	20%	50V
C060	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C061	1-126-101-11	ELECT	100MF	20%	16V
C065	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		CONNECTOR			
CN001	*1-563-258-11	SOCKET, CONNECTOR 15P			
CN002	*1-563-258-11	SOCKET, CONNECTOR 15P			
		DIODE			
D001	8-719-911-19	DIODE 1SS119			
D002	8-719-911-19	DIODE 1SS119			
D003	8-719-104-34	DIODE 1S2836			
		FILTER			
FL001	1-236-204-11	BPF (1.7MHz)			
FL002	1-236-203-11	BPF (1.3MHz)			
		IC			
IC001	8-759-420-18	IC AN3972FC			
IC002	8-759-420-15	IC AN3932S			
IC003	8-759-982-21	IC RC78L05A			
IC004	8-759-924-46	IC BA4560F			
IC005	8-759-946-44	IC TK15120M			
IC006	8-759-946-44	IC TK15120M			
		RESISTOR			
R001	1-249-417-11	METAL	1K	5%	1/4W
R002	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R003	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R004	1-214-723-00	CARBON	560	5%	1/4W
R005	1-216-047-00	METAL GLAZE	820	5%	1/10W
R006	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R007	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R008	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R009	1-216-295-00	METAL GLAZE	0	5%	1/10W
R011	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R012	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R013	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R014	1-216-047-00	METAL GLAZE	820	5%	1/10W
R015	1-214-723-00	CARBON	560	5%	1/4W
R016	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R017	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R018	1-249-417-11	METAL	1K	5%	1/4W
R019	1-216-043-00	METAL GLAZE	560	5%	1/10W
R020	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R021	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R022	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R023	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R024	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R025	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R026	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R027	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W

Ref.No	Part No.	Description			Remark
R028	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R029	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R032	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R033	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R034	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R035	1-249-427-11	METAL	6.8K	5%	1/4W
R036	1-249-427-11	METAL	6.8K	5%	1/4W
R037	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R041	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R042	1-249-428-11	METAL	8.2K	5%	1/4W
R043	1-249-428-11	METAL	8.2K	5%	1/4W
R044	1-249-430-11	METAL	12K	5%	1/4W
R045	1-249-430-11	METAL	12K	5%	1/4W
R048	1-249-441-11	METAL	100K	5%	1/4W
R049	1-249-441-11	METAL	100K	5%	1/4W
R049	1-249-441-11	CARBON	100K	5%	1/4W
R068	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R201	1-216-295-00	METAL GLAZE	0	5%	1/10W
R202	1-216-295-00	METAL GLAZE	0	5%	1/10W
R203	1-216-295-00	METAL GLAZE	0	5%	1/10W
R301	1-216-296-00	METAL GLAZE	0	5%	1/8W
R302	1-216-296-00	METAL GLAZE	0	5%	1/8W
R303	1-216-296-00	METAL GLAZE	0	5%	1/8W

VARIABLE RESISTOR

RV002	1-230-522-11	RES, ADJ, METAL GLAZE 4.7K
RV003	1-238-167-11	RES, ADJ, CARBON 22K
RV004	1-238-167-11	RES, ADJ, CARBON 22K
RV005	1-230-498-11	RES, ADJ, CARBON 47K
RV006	1-230-498-11	RES, ADJ, CARBON 47K
RV007	1-238-167-11	RES, ADJ, CARBON 22K
RV008	1-230-522-11	RES, ADJ, METAL GLAZE 4.7K
RV009	1-238-167-11	RES, ADJ, CARBON 22K

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*A-6717-573-A MA-62 BOARD, COMPLETE (SLV-575 UC)
***************** (Ref. No. 3000 Series)

*A-6717-574-A MA-62 BOARD, COMPLETE (SLV-676 UC)
***************** (Ref. No. 3000 Series)

(including the SI-10 BOARD)

*3-743-679-01 CASE, SHIELD, AU

CAPACITOR

Ref.No	Part No.	Description			Remark
C101	1-123-875-11	ELECT	10MF	20%	50V
C102	1-123-875-11	ELECT	10MF	20%	50V
C103	1-123-875-11	ELECT	10MF	20%	50V
C104	1-123-875-11	ELECT	10MF	20%	50V
C231	1-124-477-11	ELECT	47MF	20%	16V
C232	1-124-471-00	ELECT	1000MF	20%	6.3V
C233	1-124-477-11	ELECT	47MF	20%	16V
C234	1-124-443-00	ELECT	100MF	20%	10V
C235	1-124-471-00	ELECT	1000MF	20%	6.3V
C250	1-109-675-11	MICA	120PF	5%	500V
C251	1-124-446-11	ELECT	47MF	20%	10V
C252	1-164-083-11	CERAMIC	680PF	10%	50V
C254	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C255	1-126-233-11	ELECT	22MF	20%	25V
C256	1-131-344-00	ELECT(SOLID)	0.33MF	10%	25V
C257	1-124-446-11	ELECT	47MF	20%	10V
C258	1-130-483-00	MYLAR	0.01MF	5%	50V
C259	1-124-791-11	ELECT	1MF	20%	50V
C261	1-126-233-11	ELECT	22MF	20%	25V
C264	1-102-978-00	CERAMIC	220PF	5%	50V
C265	1-124-791-11	ELECT	1MF	20%	50V
C266	1-124-446-11	ELECT	47MF	20%	10V
C267	1-124-446-11	ELECT	47MF	20%	10V
C268	1-124-791-11	ELECT	1MF	20%	50V
C269	1-124-791-11	ELECT	1MF	20%	50V
C270	1-124-791-11	ELECT	1MF	20%	50V
C271	1-161-053-00	CERAMIC	0.015MF	10%	25V
C273	1-161-020-11	CERAMIC	0.039MF	10%	16V
C274	1-124-927-11	ELECT	4.7MF	20%	50V
C275	1-124-446-11	ELECT	47MF	20%	10V
C276	1-164-087-11	CERAMIC	0.0015MF	10%	50V
C277	1-161-051-00	CERAMIC	0.01MF	10%	25V
C278	1-136-561-11	FILM	0.0068MF	10%	400V
C280	1-130-483-00	MYLAR	0.01MF	5%	50V (SLV-676 UC)
C281	1-161-056-00	CERAMIC	0.027MF	10%	25V (SLV-676 UC)
C282	1-124-446-11	ELECT	47MF	20%	10V (SLV-676 UC)
C283	1-137-075-	FILM	0.068MF	5%	100V (SLV-676 UC)
C284	1-164-087-11	CERAMIC	0.0015MF	10%	50V (SLV-676 UC)
C285	1-102-114-00	CERAMIC	470PF	10%	50V
C401	1-123-875-11	ELECT	10MF	20%	50V
C402	1-124-791-11	ELECT	1MF	20%	50V
C403	1-123-875-11	ELECT	10MF	20%	50V
C404	1-161-043-00	CERAMIC	0.0022MF	20%	16V
C405	1-124-499-11	ELECT	1MF	20%	50V
C406	1-124-446-11	ELECT	47MF	20%	10V
C407	1-164-070-11	CERAMIC	100PF	5%	50V
C408	1-164-096-11	CERAMIC	0.01MF		50V
C409	1-164-093-11	CERAMIC	0.0047MF	10%	25V
C410	1-164-096-11	CERAMIC	0.01MF		50V
C411	1-124-446-11	ELECT	47MF	20%	10V
C413	1-130-483-00	MYLAR	0.01MF	5%	50V
C414	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C415	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C416	1-162-847-11	CERAMIC	0.047MF	20%	16V
C422	1-124-446-11	ELECT	47MF	20%	10V
C423	1-126-233-11	ELECT	22MF	20%	25V
C425	1-130-487-00	MYLAR	0.022MF	5%	50V
C426	1-124-925-11	ELECT	2.2MF	20%	50V
C427	1-130-489-00	MYLAR	0.033MF	5%	50V
C428	1-130-491-00	MYLAR	0.047MF	5%	50V
C431	1-162-290-31	CERAMIC	470PF	10%	50V
C483	1-131-344-00	ELECT(SOLID)	0.33MF	10%	25V
C501	1-164-096-11	CERAMIC	0.01MF		50V
C504	1-123-875-11	ELECT	10MF	20%	50V
C505	1-124-477-11	ELECT	47MF	20%	16V
C506	1-123-875-11	ELECT	10MF	20%	50V
C507	1-101-006-00	CERAMIC	0.047MF		50V
C508	1-124-478-11	ELECT	100MF	20%	25V
C509	1-102-953-00	CERAMIC	18PF	5%	50V
C510	1-102-953-00	CERAMIC	18PF	5%	50V
C515	1-164-096-11	CERAMIC	0.01MF		50V
C519	1-164-096-11	CERAMIC	0.01MF		50V
C520	1-102-963-00	CERAMIC	33PF	10%	50V
C522	1-164-068-11	CERAMIC	82PF	5%	50V
C523	1-164-096-11	CERAMIC	0.01MF		50V
C524	1-124-463-00	ELECT	0.1MF	20%	50V
C525	1-102-114-00	CERAMIC	470PF	10%	50V
C531	1-124-925-11	ELECT	2.2MF	20%	50V
C538	1-124-478-11	ELECT	100MF	20%	25V
C539	1-102-978-00	CERAMIC	220PF	5%	50V
C541	1-161-379-00	CERAMIC	0.01MF	30%	25V

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description			Remark
C542	1-124-477-11	ELECT	47MF	20%	25V
C802	1-123-875-11	ELECT	10MF	20%	50V
C809	1-123-875-11	ELECT	10MF	20%	50V
C811	1-123-875-11	ELECT	10MF	20%	50V
C818	1-162-839-11	CERAMIC	0.01MF	10%	16V
C820	1-162-835-11	CERAMIC	0.0047MF	10%	16V
C821	1-164-085-11	CERAMIC	0.001MF	10%	50V
C822	1-124-925-11	ELECT	2.2MF	20%	50V
C838	1-123-875-11	ELECT	10MF	20%	50V
C840	1-123-875-11	ELECT	10MF	20%	50V
C841	1-123-875-11	ELECT	10MF	20%	50V
C842	1-123-875-11	ELECT	10MF	20%	50V
C844	1-164-096-11	CERAMIC	0.01MF		50V

CONNECTOR

CN004	1-563-596-11	CONNECTOR, FLEXIBLE 19P
CN007	1-563-596-11	CONNECTOR, FLEXIBLE 19P
CN511	1-568-093-11	CONNECTOR (PLUG) 20P
CN512	1-568-094-11	CONNECTOR (PLUG) 22P
CN513	1-506-468-11	PIN, CONNECTOR 3P
CN514	1-506-469-11	PIN, CONNECTOR 4P
CN516	*1-568-783-11	PIN, CONNECTOR 6P
CN517	1-506-468-11	PIN, CONNECTOR 3P
CN531	1-506-472-11	PIN, CONNECTOR 7P
CN532	*1-568-783-11	PIN, CONNECTOR 6P
CN541	*1-568-790-11	PIN, CONNECTOR 13P
CN542	*1-568-787-11	PIN, CONNECTOR 10P
CN551	*1-568-088-11	CONNECTOR (PLUG) 10P
CN552	1-568-089-11	CONNECTOR (PLUG) 12P
CN553	1-506-470-11	PIN, CONNECTOR 5P
CN561	1-569-695-21	CONNECTOR, BOARD TO BOARD 17P
CN562	1-569-677-21	CONNECTOR, BOARD TO BOARD 7P
CN571	*1-506-744-11	PIN, CONNECTOR 15P
CN572	*1-506-744-11	PIN, CONNECTOR 15P
CN573	*1-560-892-00	PIN, CONNECTOR 4P
CN574	*1-560-891-00	PIN, CONNECTOR 3P
CN582	1-563-599-11	CONNECTOR, FLEXIBLE 22P
CN585	1-568-087-11	CONNECTOR (PLUG) 8P
CN586	1-568-087-11	CONNECTOR (PLUG) 8P
CN587	1-506-468-11	PIN, CONNECTOR 3P

DIODE

D401	8-719-911-19	DIODE 1SS119
D402	8-719-911-19	DIODE 1SS119
D403	8-719-911-19	DIODE 1SS119
D404	8-719-911-19	DIODE 1SS119
D409	8-719-101-50	DIODE RD5.1EL2
D410	8-719-911-19	DIODE 1SS119
D501	8-719-913-44	DIODE ERA82-004
D502	8-719-911-19	DIODE 1SS119
D505	8-719-911-19	DIODE 1SS119
D508	8-719-101-47	DIODE RD4.7EL2
D516	8-719-911-19	DIODE 1SS119
D517	8-719-911-19	DIODE 1SS119
D518	8-719-200-82	DIODE 11ES2
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D803	8-719-911-19	DIODE 1SS119
D804	8-719-911-19	DIODE 1SS119
D807	8-719-911-19	DIODE 1SS119

IC

IC251	8-759-805-20	IC LA7297
IC401	8-759-000-49	IC MC14066BCP
IC402	8-759-632-58	IC M52435P
IC403	8-759-008-70	IC LM358N
IC404	8-759-981-85	IC RC4556D
IC406	8-759-938-12	IC BA10324
IC501	8-752-814-57	IC CXP80624-005Q
IC502	⚠8-759-983-45	IC BA6238A
IC503	8-759-035-36	IC MC68HC05P7
IC801	8-759-208-08	IC TC4052BPHB
IC802	8-759-923-90	IC BA4560
IC803	8-759-208-08	IC TC4052BPHB
IC809	8-759-822-71	IC LA7954

COIL

L201	1-408-409-00	INDUCTOR	10UH
L202	1-408-409-00	INDUCTOR	10UH
L251	1-410-087-31	INDUCTOR	10MMH
L252	1-410-091-31	INDUCTOR	22MMH
L253	1-410-687-11	INDUCTOR	1.2MMH
L254	1-408-426-00	INDUCTOR	270UH (SLV-676 UC)
L501	1-408-413-00	INDUCTOR	22UH
L502	1-408-413-00	INDUCTOR	22UH

IC LINK

PS202	⚠1-532-605-00	LINK, IC (ICP-N10) 0.4A (SLV-676 UC)

TRANSISTOR

Q101	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q102	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q203	8-729-920-68	TRANSISTOR 2SA933S-QR
Q204	8-729-920-68	TRANSISTOR 2SA933S-QR
Q251	8-729-102-03	TRANSISTOR 2SD1020
Q253	8-729-119-76	TRANSISTOR 2SA11175-HFE (SLV-676 UC)
Q254	⚠8-729-140-96	TRANSISTOR 2SD774-34 (SLV-676 UC)
Q401	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q403	8-729-115-10	TRANSISTOR 2SK105A-10
Q404	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q405	8-729-900-89	TRANSISTOR DTC144ES
Q410	8-729-900-65	TRANSISTOR DTA144ES
Q412	8-729-900-89	TRANSISTOR DTC144ES
Q423	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q428	8-729-920-68	TRANSISTOR 2SA933S-QR
Q430	8-729-900-89	TRANSISTOR DTC144ES
Q431	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q434	8-729-600-19	TRANSISTOR 2SK381-A
Q435	8-729-600-19	TRANSISTOR 2SK381-A
Q501	8-729-900-61	TRANSISTOR DTA114ES
Q502	8-729-900-61	TRANSISTOR DTA114ES
Q503	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q504	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q505	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q506	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q507	8-729-900-61	TRANSISTOR DTA114ES
Q508	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q514	8-729-920-70	TRANSISTOR 2SC1740S-QR (SLV-676 UC)
Q515	8-729-920-68	TRANSISTOR 2SA933S-QR (SLV-676 UC)
Q516	8-729-900-80	TRANSISTOR DTC114ES (SLV-676 UC)
Q517	8-729-920-70	TRANSISTOR 2SC1740S-QR (SLV-676 UC)
Q518	8-729-900-89	TRANSISTOR DTC144ES (SLV-676 UC)
Q519	8-729-900-65	TRANSISTOR DTA144ES (SLV-676 UC)
Q701	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q803	8-729-920-68	TRANSISTOR 2SA933S-QR
Q804	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q805	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q807	8-729-920-70	TRANSISTOR 2SC1740S-QR

RESISTOR

R101	1-249-441-11	CARBON	100K	5%	1/4W

When indicating parts by reference number, please include the board name.

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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Ref.No	Part No.	Description				Remark
R102	1-249-441-11	CARBON	100K	5%	1/4W	
R103	1-249-417-11	CARBON	1K	5%	1/4W	
R106	1-249-441-11	CARBON	100K	5%	1/4W	
R107	1-249-441-11	CARBON	100K	5%	1/4W	
R108	1-249-417-11	CARBON	1K	5%	1/4W	
R136	1-249-413-11	CARBON	470	5%	1/4W	
R137	1-249-413-11	CARBON	470	5%	1/4W	
R138	⚠1-249-385-11	CARBON	2.2	5%	1/4W	F
R210	1-249-405-11	CARBON	100	5%	1/4W	
R211	1-249-405-11	CARBON	100	5%	1/4W	
R212	1-249-424-11	CARBON	3.9K	5%	1/4W	
R222	1-249-410-11	CARBON	270	5%	1/4W	
R224	1-249-406-11	CARBON	120	5%	1/4W	
R225	1-249-406-11	CARBON	120	5%	1/4W	
R227	1-247-804-11	CARBON	75	5%	1/4W	
R232	1-247-804-11	CARBON	75	5%	1/4W	
R251	1-249-430-11	CARBON	12K	5%	1/4W	
R252	1-249-393-11	CARBON	10	5%	1/4W	
R253	1-249-412-11	CARBON	390	5%	1/4W	
R254	1-249-411-11	CARBON	330	5%	1/4W	
R255	1-247-883-00	CARBON	150K	5%	1/4W	
R256	1-247-854-11	CARBON	9.1K	5%	1/4W	
R257	1-247-872-11	CARBON	51K	5%	1/4W	
R258	1-249-434-11	CARBON	27K	5%	1/4W	
R259	1-249-420-11	CARBON	1.8K	5%	1/4W	
R260	1-247-903-00	CARBON	1M	5%	1/4W	
R262	1-249-438-11	CARBON	56K	5%	1/4W	
R263	1-249-432-11	CARBON	18K	5%	1/4W	
R264	1-249-427-11	CARBON	6.8K	5%	1/4W	
R265	1-249-429-11	CARBON	10K	5%	1/4W	
R266	1-249-429-11	CARBON	10K	5%	1/4W	
R267	1-249-429-11	CARBON	10K	5%	1/4W	
R268	1-249-429-11	CARBON	10K	5%	1/4W	
R269	1-249-411-11	CARBON	330	5%	1/4W	
R270	1-249-422-11	CARBON	2.7K	5%	1/4W	
R272	1-249-411-11	CARBON	330	5%	1/4W	
R273	1-249-428-11	CARBON	8.2K	5%	1/4W	
R274	1-249-434-11	CARBON	27K	5%	1/4W	
R275	⚠1-249-387-11	CARBON	3.3	5%	1/4W	F
R277	1-249-429-11	CARBON	10K	5%	1/4W	(SLV-676 UC)
R278	1-249-425-11	CARBON	4.7K	5%	1/4W	(SLV-676 UC)
R282	1-249-429-11	CARBON	10K	5%	1/4W	(SLV-676 UC)
R283	⚠1-249-387-11	CARBON	3.3	5%	1/4W	F (SLV-676 UC)
R299	1-249-437-11	CARBON	47K	5%	1/4W	
R401	1-249-429-11	CARBON	10K	5%	1/4W	
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-249-433-11	CARBON	22K	5%	1/4W	
R405	1-249-433-11	CARBON	22K	5%	1/4W	
R406	1-249-433-11	CARBON	22K	5%	1/4W	
R408	1-249-429-11	CARBON	10K	5%	1/4W	
R411	1-249-429-11	CARBON	10K	5%	1/4W	
R412	1-249-427-11	CARBON	6.8K	5%	1/4W	
R413	1-249-441-11	CARBON	100K	5%	1/4W	
R414	1-247-887-00	CARBON	220K	5%	1/4W	
R415	1-249-405-11	CARBON	100	5%	1/4W	
R416	1-247-885-00	CARBON	180K	5%	1/4W	
R417	1-249-429-11	CARBON	10K	5%	1/4W	
R418	1-247-889-00	CARBON	270K	5%	1/4W	
R419	1-249-437-11	CARBON	47K	5%	1/4W	
R420	1-249-413-11	CARBON	470	5%	1/4W	
R421	1-249-433-11	CARBON	22K	5%	1/4W	
R424	1-249-433-11	CARBON	22K	5%	1/4W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R425	1-249-437-11	CARBON	47K	5%	1/4W	
R426	1-249-433-11	CARBON	22K	5%	1/4W	
R427	1-249-436-11	CARBON	39K	5%	1/4W	
R428	1-249-429-11	CARBON	10K	5%	1/4W	
R429	1-249-429-11	CARBON	10K	5%	1/4W	
R430	1-249-430-11	CARBON	12K	5%	1/4W	
R431	1-249-431-11	CARBON	15K	5%	1/4W	
R432	1-249-429-11	CARBON	10K	5%	1/4W	
R433	1-249-433-11	CARBON	22K	5%	1/4W	
R434	1-249-433-11	CARBON	22K	5%	1/4W	
R435	1-249-437-11	CARBON	47K	5%	1/4W	
R436	1-249-433-11	CARBON	22K	5%	1/4W	
R437	1-249-437-11	CARBON	47K	5%	1/4W	
R441	1-247-895-00	CARBON	470K	5%	1/4W	
R442	1-249-429-11	CARBON	10K	5%	1/4W	
R443	1-249-441-11	CARBON	100K	5%	1/4W	
R444	1-249-441-11	CARBON	100K	5%	1/4W	
R448	1-249-417-11	CARBON	1K	5%	1/4W	
R449	1-247-885-00	CARBON	180K	5%	1/4W	
R450	1-249-417-11	CARBON	1K	5%	1/4W	
R452	1-249-425-11	CARBON	4.7K	5%	1/4W	
R453	1-249-429-11	CARBON	10K	5%	1/4W	
R454	1-249-415-11	CARBON	680	5%	1/4W	
R463	1-249-423-11	CARBON	3.3K	5%	1/4W	
R465	1-249-423-11	CARBON	3.3K	5%	1/4W	
R466	1-247-885-00	CARBON	180K	5%	1/4W	
R467	1-249-429-11	CARBON	10K	5%	1/4W	
R468	1-249-429-11	CARBON	10K	5%	1/4W	
R470	1-249-415-11	CARBON	680	5%	1/4W	
R488	1-249-417-11	CARBON	1K	5%	1/4W	
R490	1-249-429-11	CARBON	10K	5%	1/4W	
R491	1-249-419-11	CARBON	1.5K	5%	1/4W	
R496	1-249-435-11	CARBON	33K	5%	1/4W	
R497	1-249-429-11	CARBON	10K	5%	1/4W	
R502	⚠1-249-385-11	CARBON	2.2	5%	1/4W	F
R505	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W	
R509	1-249-417-11	CARBON	1K	5%	1/4W	
R510	1-249-417-11	CARBON	1K	5%	1/4W	
R511	1-249-417-11	CARBON	1K	5%	1/4W	
R512	1-249-429-11	CARBON	10K	5%	1/4W	
R513	⚠1-247-705-11	CARBON	270	5%	1/4W	
R514	1-249-417-11	CARBON	1K	5%	1/4W	
R515	1-249-417-11	CARBON	1K	5%	1/4W	
R516	1-249-429-11	CARBON	10K	5%	1/4W	
R517	1-249-437-11	CARBON	47K	5%	1/4W	
R518	1-249-425-11	CARBON	4.7K	5%	1/4W	
R519	1-249-425-11	CARBON	4.7K	5%	1/4W	
R524	1-249-429-11	CARBON	10K	5%	1/4W	
R526	1-249-437-11	CARBON	47K	5%	1/4W	
R527	1-249-431-11	CARBON	15K	5%	1/4W	
R528	1-249-419-11	CARBON	1.5K	5%	1/4W	
R529	1-249-418-11	CARBON	1.2K	5%	1/4W	
R530	1-249-417-11	CARBON	1K	5%	1/4W	
R531	1-249-417-11	CARBON	1K	5%	1/4W	
R532	1-249-421-11	CARBON	2.2K	5%	1/4W	
R533	1-247-897-11	CARBON	560K	5%	1/4W	
R534	1-249-428-11	CARBON	8.2K	5%	1/4W	
R535	1-249-410-11	CARBON	270	5%	1/4W	
R536	1-249-421-11	CARBON	2.2K	5%	1/4W	
R537	1-249-437-11	CARBON	47K	5%	1/4W	
R538	1-249-427-11	CARBON	6.8K	5%	1/4W	
R539	1-249-417-11	CARBON	1K	5%	1/4W	
R540	1-249-435-11	CARBON	33K	5%	1/4W	
R541	1-249-429-11	CARBON	10K	5%	1/4W	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description				Remark
R542	1-249-432-11	CARBON	18K	5%	1/4W	
R543	1-249-401-11	CARBON	47	5%	1/4W	
R548	1-249-431-11	CARBON	15K	5%	1/4W	
R552	1-249-429-11	CARBON	10K	5%	1/4W	(SLV-676 UC)
R553	1-249-417-11	CARBON	1K	5%	1/4W	(SLV-676 UC)
R555	1-249-441-11	CARBON	100K	5%	1/4W	(SLV-676 UC)
R556	1-249-437-11	CARBON	47K	5%	1/4W	
R557	1-249-437-11	CARBON	47K	5%	1/4W	
R558	1-249-437-11	CARBON	47K	5%	1/4W	
R561	1-249-437-11	CARBON	47K	5%	1/4W	
R562	1-249-437-11	CARBON	47K	5%	1/4W	
R563	1-249-437-11	CARBON	47K	5%	1/4W	
R564	1-249-437-11	CARBON	47K	5%	1/4W	
R565	1-249-437-11	CARBON	47K	5%	1/4W	
R566	1-249-437-11	CARBON	47K	5%	1/4W	
R567	1-249-437-11	CARBON	47K	5%	1/4W	
R572	1-249-405-11	CARBON	100	5%	1/4W	(SLV-676 UC)
R573	1-249-427-11	CARBON	6.8K	5%	1/4W	
R574	1-247-903-00	CARBON	1M	5%	1/4W	
R582	1-247-891-00	CARBON	330K	5%	1/4W	(SLV-676 UC)
R583	1-247-887-00	CARBON	220K	5%	1/4W	(SLV-676 UC)
R589	1-249-421-11	CARBON	2.2K	5%	1/4W	
R590	⚠1-249-385-11	CARBON	2.2	5%	1/4W	F
R591	1-249-422-11	CARBON	2.7K	5%	1/4W	
R595	1-249-429-11	CARBON	10K	5%	1/4W	
R596	1-249-429-11	CARBON	10K	5%	1/4W	
R598	1-249-413-11	CARBON	470	5%	1/4W	
R599	1-249-437-11	CARBON	47K	5%	1/4W	
R751	1-249-414-11	CARBON	560	5%	1/4W	
R752	1-249-423-11	CARBON	3.3K	5%	1/4W	
R801	1-249-417-11	CARBON	1K	5%	1/4W	
R802	1-249-417-11	CARBON	1K	5%	1/4W	
R803	1-249-417-11	CARBON	1K	5%	1/4W	
R804	1-249-417-11	CARBON	1K	5%	1/4W	
R805	1-249-417-11	CARBON	1K	5%	1/4W	
R806	1-249-417-11	CARBON	1K	5%	1/4W	
R808	1-249-441-11	CARBON	100K	5%	1/4W	
R810	1-249-435-11	CARBON	33K	5%	1/4W	
R813	1-249-432-11	CARBON	18K	5%	1/4W	
R814	1-249-441-11	CARBON	100K	5%	1/4W	
R815	1-249-437-11	CARBON	47K	5%	1/4W	
R816	1-249-437-11	CARBON	47K	5%	1/4W	
R817	1-249-437-11	CARBON	47K	5%	1/4W	
R826	1-249-419-11	CARBON	1.5K	5%	1/4W	
R827	1-247-903-00	CARBON	1M	5%	1/4W	
R828	1-249-419-11	CARBON	1.5K	5%	1/4W	
R829	1-249-422-11	CARBON	2.7K	5%	1/4W	
R830	1-249-429-11	CARBON	10K	5%	1/4W	
R831	1-249-435-11	CARBON	33K	5%	1/4W	
R837	1-249-417-11	CARBON	1K	5%	1/4W	
R838	1-249-417-11	CARBON	1K	5%	1/4W	
R839	1-249-437-11	CARBON	47K	5%	1/4W	
R840	1-249-405-11	CARBON	100	5%	1/4W	
R841	1-249-417-11	CARBON	1K	5%	1/4W	
R843	1-249-428-11	CARBON	8.2K	5%	1/4W	
R844	1-249-433-11	CARBON	22K	5%	1/4W	
R845	1-249-433-11	CARBON	22K	5%	1/4W	
R849	1-249-429-11	CARBON	10K	5%	1/4W	
R851	1-249-441-11	CARBON	100K	5%	1/4W	
R852	1-249-441-11	CARBON	100K	5%	1/4W	
R853	1-249-441-11	CARBON	100K	5%	1/4W	
R854	1-249-441-11	CARBON	100K	5%	1/4W	
R855	1-249-441-11	CARBON	100K	5%	1/4W	
R856	1-249-441-11	CARBON	100K	5%	1/4W	
R857	1-249-424-11	CARBON	3.9K	5%	1/4W	
R858	1-249-417-11	CARBON	1K	5%	1/4W	
R859	1-249-441-11	CARBON	100K	5%	1/4W	
R863	1-249-441-11	CARBON	100K	5%	1/4W	(SLV-676 UC)
R901	1-249-417-11	CARBON	1K	5%	1/4W	
R903	1-247-887-00	CARBON	220K	5%	1/4W	

VARIABLE RESISTOR

RV251	1-228-998-00	RES, ADJ, CARBON 220K
RV501	1-228-994-00	RES, ADJ, CARBON 10K

TRANSFORMER

T251	1-433-352-11	TRANSFORMER, BIAS OSCILLATION
T252	1-406-349-11	TRANSFORMER, OSCILLATION (SLV-676 UC)

CRYSTAL

X501	1-578-774-11	VIBRATOR, CRYSTAL (12MHz)
X503	1-577-358-21	VIBRATOR, CERAMIC (4MHz)

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*A-6721-334-A TU-120 BOARD, COMPLETE (Ref. No. 5000 Series)

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CAPACITOR

C001	1-124-477-11	ELECT	47MF	20%	16V
C002	1-124-927-11	ELECT	4.7MF	20%	50V
C003	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C004	1-126-233-11	ELECT	22MF	20%	50V
C005	1-126-103-11	ELECT	470MF	20%	16V
C006	1-124-927-11	ELECT	4.7MF	20%	50V
C008	1-163-108-00	CERAMIC CHIP	43PF	5%	50V
C009	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C010	1-124-477-11	ELECT	47MF	20%	16V
C011	1-124-477-11	ELECT	47MF	20%	16V
C012	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V
C013	1-124-477-11	ELECT	47MF	20%	16V
C014	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V
C015	1-123-875-11	ELECT	10MF	20%	50V
C016	1-123-875-11	ELECT	10MF	20%	50V
C017	1-123-875-11	ELECT	10MF	20%	50V
C018	1-124-477-11	ELECT	47MF	20%	16V
C019	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V

CONNECTOR

CN001	⚠1-568-074-11	CONNECTOR (RECEPTALE) 10P
CN002	1-568-075-11	CONNECTOR (RECEPTALE) 12P

DIODE

D001	8-719-110-78	DIODE RD33ES-B2
D002	8-719-400-18	DIODE MA152WK
D003	8-719-400-18	DIODE MA152WK

IF BLOCK

IF001	⚠1-466-318-11	IF BLOCK (IFY-450C)

COIL

L001	⚠1-408-421-00	INDUCTOR	100UH
L002	1-408-413-00	INDUCTOR	22UH
L003	1-408-409-00	INDUCTOR	10UH

When indicating parts by reference number, please include the board name.

Note:
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Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

TU-120 RM-40 MF-93

Ref.No	Part No.	Description				Remark
L004	1-408-409-00	INDUCTOR	10UH			
L005	1-408-409-00	INDUCTOR	10UH			
		DECODER				
⚠MPX001	1-466-072-11	DECODER BLOCK, MULTIPLE SOUND				
		TRANSISTOR				
Q001	⚠8-729-901-78	TRANSISTOR 2SC2412K-R				
Q003	8-729-901-78	TRANSISTOR 2SC2412K-R				
Q005	8-729-901-78	TRANSISTOR 2SC2412K-R				
Q006	8-729-900-53	TRANSISTOR DTC114EK				
		RESISTOR				
R002	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R004	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R005	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R006	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R007	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R008	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R009	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R010	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R011	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R012	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R013	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R014	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R015	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R016	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R017	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R021	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R023	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
		VARIABLE RESISTOR				
RV001	1-238-016-11	RES, ADJ, CARBON 10K				
		TUNER				
TU001	⚠1-465-239-11	TUNER, ET				

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*1-634-951-11 RM-40 BOARD (Ref. No. 6000 Series)
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		CONNECTOR	
CN301	*1-565-980-11	HOUSING,CONNECTOR(PC BOARD) 9P	
		DIODE	
D301	8-719-955-04	DIODE RY5504S-1 (AUTO TRACKING)	
D302	8-719-302-07	DIODE SEL1810A (SYNCRO EDIT) (SLV-676 UC)	
D303	8-719-940-99	DIODE SLR-34VC3 (AUDIO INSERT) (SLV-676 UC)	
D304	8-719-940-99	DIODE SLR-34VC3 (VIDEO INSERT) (SLV-676 UC)	
D305	8-719-940-82	DIODE SLR-34MC3 (HIGH SPEED REWIND)	
		IC	
IC301	1-466-131-11	CATCHER RAY BLOCK	

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*A-6725-803-A MF-93 BOARD, COMPLETE (SLV-575 UC)
**************** (Ref. No. 6000 Series)

*A-6725-805-A MF-93 BOARD, COMPLETE (SLV-676 UC)
**************** (Ref. No. 6000 Series)

Ref.No	Part No.	Description				Remark
	3-682-419-51	HOLDER, P.C.B				
	3-743-637-01	HOLDER, FL				
	3-743-659-01	HOLDER, LED				
		BUZZER				
BZ201	1-529-080-11	BUZZER, PIEZOELECTRIC				
		CAPACITOR				
C202	1-162-219-31	CERAMIC	68PF	5%	50V	
C203	1-162-211-31	CERAMIC	33PF	5%	50V	
C204	1-162-211-31	CERAMIC	33PF	5%	50V	
C205	1-162-847-11	CERAMIC	0.047MF	10%	16V	
C206	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C207	1-125-486-11	ELECT	0.22F		5.5V	
C208	1-126-157-11	ELECT	10MF	20%	16V	
C209	1-126-154-11	ELECT	47MF	20%	6.3V	
C210	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C211	1-162-847-11	CERAMIC	0.047MF	10%	16V	
C212	1-126-096-11	ELECT	10MF	20%	35V	
C213	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C214	1-124-589-11	ELECT	47MF	20%	16V	
C215	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C218	1-126-163-11	ELECT	4.7MF	20%	50V	
C219	1-126-163-11	ELECT	4.7MF	20%	50V	
C220	1-162-282-31	CERAMIC	100PF	10%	50V	
C221	1-162-282-31	CERAMIC	100PF	10%	50V	
C222	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C223	1-162-282-31	CERAMIC	100PF	10%	50V	
C224	1-162-282-31	CERAMIC	100PF	10%	50V	
C225	1-162-282-31	CERAMIC	100PF	10%	50V	
		CONNECTOR				
CN201	1-568-665-11	CONNECTOR, BOARD TO BOARD 11P				
CN202	1-568-080-11	CONNECTOR (RECEPTALE) 22P				
CN203	1-568-079-11	CONNECTOR (RECEPTALE) 20P				
CN204	*1-565-976-11	PIN, CONNECTOR (PC BOARD) 9P				
CN206	1-569-674-11	CONNECTOR, BOARD TO BOARD 12P				
CN207	1-506-482-11	PIN, CONNECTOR 3P				
		COMBINATION PARTS				
CP201	1-232-986-11	COMPOSITION CIRCUIT BLOCK				
CP202	1-232-986-11	COMPOSITION CIRCUIT BLOCK				
		VARIABLE CAPACITOR				
CV201	1-141-291-11	CAP, TRIMMER				
		DIODE				
D201	8-719-911-19	DIODE 1SS119				
D202	8-719-911-19	DIODE 1SS119				
D203	8-719-911-19	DIODE 1SS119				
D204	8-719-911-19	DIODE 1SS119				
D205	8-719-911-19	DIODE 1SS119 (SLV-676 UC)				
D206	8-719-911-19	DIODE 1SS119 (SLV-676 UC)				
D208	8-719-109-85	DIODE RD5.1ES-B2				
D209	8-719-120-90	DIODE RD6.8ES-B2				
D211	8-719-911-19	DIODE 1SS119				
D212	8-719-911-19	DIODE 1SS119 (SLV-676 UC)				
D216	8-719-911-19	DIODE 1SS119 (SLV-676 UC)				
D217	8-719-911-19	DIODE 1SS119 (SLV-676 UC)				
D218	8-719-911-19	DIODE 1SS119				
D212	8-719-911-19	DIODE 1SS133T-72 (SLV-676 UC)				
		IC				
IC201	8-759-501-39	IC MB89794B-VSX681				
IC202	8-759-977-88	IC CAT59C11P				
IC203	8-759-502-50	IC S-8053HNB				

When indicating parts by reference number, please include the board name.

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remark
IC204	8-759-947-53	IC S-8054ALR	
IC205	8-759-961-38	IC BA6138	
		COIL	
L201	1-410-521-11	INDUCTOR 100UH	
		INDICATOR TUBE	
ND201	1-519-598-11	INDICATOR TUBE, FLUORESCENT	
		TRANSISTOR	
Q201	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF (SLV-676 UC)	
Q205	8-729-900-89	TRANSISTOR DTC144ES (SLV-676 UC)	
Q206	8-729-900-89	TRANSISTOR DTC144ES (SLV-676 UC)	
		RESISTOR	
R201	1-249-429-11	CARBON 10K 5% 1/4W	
R202	1-249-433-11	CARBON 22K 5% 1/4W	
R203	1-249-401-11	CARBON 47 5% 1/4W	
R204	1-249-440-11	CARBON 82K 5% 1/4W	
R205	1-249-405-11	CARBON 100 5% 1/4W	
R206	1-249-430-11	CARBON 12K 5% 1/4W	(SLV-575 UC)
R206	1-249-433-11	CARBON 22K 5% 1/4W	(SLV-676 UC)
R207	1-249-429-11	CARBON 10K 5% 1/4W	
R208	1-249-429-11	CARBON 10K 5% 1/4W	
R210	1-249-429-11	CARBON 10K 5% 1/4W	(SLV-676 UC)
R211	1-249-429-11	CARBON 10K 5% 1/4W	(SLV-676 UC)
R212	1-249-423-11	CARBON 3.3K 5% 1/4W	(SLV-676 UC)
R214	1-249-417-11	CARBON 1K 5% 1/4W	
R215	1-249-435-11	CARBON 33K 5% 1/4W	
R216	1-249-411-11	CARBON 330 5% 1/4W	
R217	1-249-423-11	CARBON 3.3K 5% 1/4W	
R222	1-249-410-11	CARBON 270 5% 1/4W	
R224	1-249-410-11	CARBON 270 5% 1/4W	(SLV-676 UC)
R225	1-249-410-11	CARBON 270 5% 1/4W	(SLV-676 UC)
R226	1-249-410-11	CARBON 270 5% 1/4W	(SLV-676 UC)
R227	1-249-410-11	CARBON 270 5% 1/4W	
R228	1-249-409-11	CARBON 220 5% 1/4W	
R229	1-247-891-00	CARBON 330K 5% 1/4W	
R230	1-249-409-11	CARBON 220 5% 1/4W	
R231	1-247-891-00	CARBON 330K 5% 1/4W	
R242	1-249-411-11	CARBON 330 5% 1/4W	
R243	1-249-429-11	CARBON 10K 5% 1/4W	
R244	1-249-423-11	CARBON 3.3K 5% 1/4W	(SLV-676 UC)
R245	1-249-417-11	CARBON 1K 5% 1/4W	
R246	1-249-417-11	CARBON 1K 5% 1/4W	
R247	1-249-409-11	CARBON 220 5% 1/4W	
R248	1-249-417-11	CARBON 1K 5% 1/4W	
R249	1-249-417-11	CARBON 1K 5% 1/4W	
R250	1-249-411-11	CARBON 330 5% 1/4W	
R251	1-249-411-11	CARBON 330 5% 1/4W	
R252	1-249-411-11	CARBON 330 5% 1/4W	
R253	1-249-437-11	CARBON 47K 5% 1/4W	
R254	1-249-437-11	CARBON 47K 5% 1/4W	
R255	1-249-429-11	CARBON 10K 5% 1/4W	
R256	1-249-429-11	CARBON 10K 5% 1/4W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
		VARIABLE RESISTOR	
RV201	1-230-523-11	RES, ADJ, CARBON 10K	
RV202	1-230-523-11	RES, ADJ, CARBON 10K	
		CRYSTAL	
X201	1-567-098-00	VIBRATOR, CRYSTAL (32.678MHz)	
X202	1-567-132-00	VIBLATOR, CERAMIC (8MHz)	

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Ref.No	Part No.	Description	Remark
	*A-6725-804-A	MF-92 BOARD, COMPLETE (SLV-575 UC) ***************	(Ref. No. 6000 Series)
	*A-6725-806-A	MF-92 BOARD, COMPLETE (SLV-676 UC) ***************	(Ref. No. 6000 Series)
	*3-743-635-01	PLATE, GROUND, MF	
		CAPACITOR	
C109	1-161-379-00	CERAMIC 0.01MF 30% 16V	
C110	1-161-379-00	CERAMIC 0.01MF 30% 16V	
C111	1-161-379-00	CERAMIC 0.01MF 30% 16V	(SLV-676 UC)
C112	1-162-282-31	CERAMIC 100PF 10% 50V	
		CONNECTOR	
CN101	1-569-668-11	CONNECTOR, BOARD TO BOARD 10P	
CN102	1-568-671-11	CONNECTOR, BOARD TO BOARD 11P	
CN103	1-506-483-21	PIN, CONNECTOR 4P	
CN104	1-506-485-11	PIN, CONNECTOR 6P	
CN105	1-506-485-11	PIN, CONNECTOR 6P (SLV-676 UC)	
		CONNECTOR	
CNJ102	1-565-669-21	JACK, SMALL TYPE (PHONES)	
CNJ104	1-565-735-21	JACK, PIN 3P (LINE 2 IN)	
CNJ105	1-568-611-11	SOCKET, DIN (SMALL TYPE) 5P (CONTROL L) (SLV-676 UC)	
		DIODE	
D101	8-719-955-04	DIODE PY5504S-1 (POWER)	
D102	8-719-955-04	DIODE PY5504S-1 (POWER)	
D103	8-719-110-36	DIODE RD13ES-B2 (SLV-676 UC)	
D104	8-719-109-97	DIODE RD6.8ES-B2 (SLV-676 UC)	
D105	8-719-911-19	DIODE 1SS119	
D106	8-719-911-19	DIODE 1SS119	
D107	8-719-109-97	DIODE RD6.8ES-B2 (SLV-676 UC)	
		RESISTOR	
R101	1-249-407-11	CARBON 150 5% 1/4W	
R102	1-249-407-11	CARBON 150 5% 1/4W	
R106	1-249-421-11	CARBON 2.2K 5% 1/4W	
R108	1-249-423-11	CARBON 3.3K 5% 1/4W	
R109	1-249-425-11	CARBON 4.7K 5% 1/4W	
R110	1-249-429-11	CARBON 10K 5% 1/4W	
R111	1-249-433-11	CARBON 22K 5% 1/4W	
R114	1-249-427-11	CARBON 6.8K 5% 1/4W	
R115	1-249-417-11	CARBON 1K 5% 1/4W	
R117	1-249-423-11	CARBON 3.3K 5% 1/4W	
R121	1-247-804-11	CARBON 75 5% 1/4W	
R122	1-249-429-11	CARBON 10K 5% 1/4W	
R123	1-249-429-11	CARBON 10K 5% 1/4W	
R124	1-249-430-11	CARBON 12K 5% 1/4W	
R125	1-249-433-11	CARBON 22K 5% 1/4W	
R126	1-249-430-11	CARBON 12K 5% 1/4W	
R127	1-249-433-11	CARBON 22K 5% 1/4W	

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VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV101	1-238-420-11	RES, VAR, CARBON 10K (PHONE LEVEL)	
RV102	1-241-061-11	RES, VAR, CARBON 2K (SHARPNESS)	
RV103	1-241-062-11	RES, VAR, CARBON 20K (REC LEVEL L)	
RV104	1-241-062-11	RES, VAR, CARBON 20K (REC LEVEL R)	

SWITCH

Ref.No	Part No.	Description	Remark
S101	1-571-977-11	SWITCH, TACTIL (POWER)	
S102	1-571-977-11	SWITCH, TACTIL (EJECT)	
S104	1-571-977-11	SWITCH, TACTIL (SYNCRO EDIT) (SLV-676 UC)	
S105	1-570-854-11	SWITCH, SLIDE (COMMAND MODE)	

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*A-6727-207-A YC-59 BOARD, COMPLETE (Ref. No. 1000 Series)

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Ref.No	Part No.	Description	Remark
	1-415-668-11	DELAY LINE, ULTRASONIC	
	3-729-971-01	COVER, VOLUME	

CAPACITOR

Ref.No	Part No.	Description			Remark
C001	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C002	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C003	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C004	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C005	1-124-446-11	ELECT	47MF	20%	10V
C006	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C007	1-126-233-11	ELECT	22MF	20%	25V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C009	1-123-875-11	ELECT	10MF	20%	50V
C010	1-124-925-11	ELECT	2.2MF	20%	50V
C011	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C012	1-124-902-00	ELECT	0.47MF	20%	50V
C013	1-123-875-11	ELECT	10MF	20%	50V
C014	1-164-157-11	CERAMIC CHIP	0.068MF	10%	25V
C015	1-163-106-00	CERAMIC CHIP	36PF	5%	50V
C016	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C017	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C018	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C019	1-124-257-00	ELECT	2.2MF	20%	50V
C020	1-124-465-00	ELECT	0.47MF	20%	50V
C021	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C022	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C023	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C024	1-124-925-11	ELECT	2.2MF	20%	50V
C025	1-126-233-11	ELECT	22MF	20%	25V
C026	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C027	1-124-446-11	ELECT	47MF	20%	10V
C028	1-124-443-00	ELECT	100MF	20%	6.3V
C029	1-126-233-11	ELECT	22MF	20%	25V
C030	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C031	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C032	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C033	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C034	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C035	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C037	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C038	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C039	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C040	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C041	1-124-446-11	ELECT	47MF	20%	10V
C042	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C043	1-124-438-00	ELECT	1MF	20%	50V
C044	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C045	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C046	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C047	1-124-927-11	ELECT	4.7MF	20%	50V
C048	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C049	1-124-791-11	ELECT	1MF	20%	50V
C050	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C051	1-124-791-11	ELECT	1MF	20%	50V
C052	1-135-149-21	TANTAL. CHIP	2.2MF	10%	10V
C053	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C054	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C055	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C056	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C057	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C058	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C059	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C060	1-124-446-11	ELECT	47MF	20%	10V
C061	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C062	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C063	1-124-446-11	ELECT	47MF	20%	10V
C064	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C066	1-126-176-11	ELECT	220MF	20%	6.3V
C068	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C069	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C070	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C071	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C073	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C074	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C076	1-124-446-11	ELECT	47MF	20%	10V
C077	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C078	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C079	1-124-791-11	ELECT	1MF	20%	50V
C081	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C082	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C083	1-164-232-11	CERAMIC CHIP	0.01MF		50V
C101	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C102	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C103	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C104	1-163-077-00	CERAMIC CHIP	0.1MF		50V

CONNECTOR

Ref.No	Part No.	Description	Remark
CN001	*1-563-258-11	SOCKET, CONNECTOR 15P	
CN002	*1-563-258-11	SOCKET, CONNECTOR 15P	

DIODE

Ref.No	Part No.	Description	Remark
D001	8-719-400-18	DIODE MA152WK	
D002	8-719-400-18	DIODE MA152WK	
D003	8-719-400-18	DIODE MA152WK	
D004	8-719-400-18	DIODE MA152WK	
D005	8-719-400-18	DIODE MA152WK	
D008	8-719-200-82	DIODE 11ES2	
D009	8-719-400-18	DIODE MA152WK	
D010	8-719-400-18	DIODE MA152WK	
D102	8-719-400-18	DIODE MA152WK	

DELAY LINE

Ref.No	Part No.	Description	Remark
DL001	1-415-668-11	DELAY LINE, ULTRASONIC	

FILTER

Ref.No	Part No.	Description	Remark
FL001	1-236-488-21	L.P.F	
FL002	1-236-489-11	B.P.F	

IC

Ref.No	Part No.	Description	Remark
IC001	8-759-821-62	IC LA7326	
IC002	8-759-821-87	IC LA7316AN	
IC003	8-759-821-50	IC LC8991	
IC004	⚠8-759-938-15	IC BA178M05	

When indicating parts by reference number, please include the board name.

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

JUMPER RESISTOR

Ref.No	Part No.	Description	Remark
JR001	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR002	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR003	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR004	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR005	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR006	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR007	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR008	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR009	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR010	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR011	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR012	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR013	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR014	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR015	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR016	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR017	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR018	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR019	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR020	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR021	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR022	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR023	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR024	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR025	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR026	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR027	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR028	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR029	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR030	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR031	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR032	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR033	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR034	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR035	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR036	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR037	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR038	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR039	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR040	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR041	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR101	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR103	1-216-295-00	METAL GLAZE 0 5% 1/10W	

JUMPER RESISTOR

Ref.No	Part No.	Description	Remark
JW002	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JW004	1-216-295-00	METAL GLAZE 0 5% 1/10W	

COIL

Ref.No	Part No.	Description	Remark
L001	1-410-524-41	INDUCTOR 180UH	
L002	1-410-667-31	INDUCTOR 22UH	
L005	1-408-417-00	INDUCTOR 47UH	
L006	1-408-424-00	INDUCTOR 180UH	
L007	1-410-335-11	INDUCTOR 150UH	
L008	1-410-509-11	INDUCTOR 10UH	
L009	1-410-516-11	INDUCTOR 39UH	
L011	1-408-421-00	INDUCTOR 100UH	
L012	1-408-419-00	INDUCTOR 68UH	
L013	1-408-419-00	INDUCTOR 68UH	
L015	1-410-516-11	INDUCTOR 39UH	
L101	1-408-427-00	INDUCTOR 330UH	
L102	1-410-336-11	INDUCTOR 220UH	

When indicating parts by reference number, please include the board name.

TRANSISTOR

Ref.No	Part No.	Description	Remark
Q001	8-729-901-06	TRANSISTOR DTA144EK	
Q002	8-729-100-66	TRANSISTOR 2SC1623	
Q003	8-729-901-01	TRANSISTOR DTC144EK	
Q004	8-729-216-22	TRANSISTOR 2SA1162	
Q005	8-729-216-22	TRANSISTOR 2SA1162	
Q006	8-729-901-47	TRANSISTOR DTA143EK	
Q007	8-729-100-66	TRANSISTOR 2SC1623	
Q008	8-729-100-66	TRANSISTOR 2SC1623	
Q009	8-729-100-66	TRANSISTOR 2SC1623	
Q010	8-729-100-66	TRANSISTOR 2SC1623	
Q011	8-729-216-22	TRANSISTOR 2SA1162	
Q012	8-729-216-22	TRANSISTOR 2SA1162	
Q015	8-729-100-66	TRANSISTOR 2SC1623	
Q019	8-729-100-66	TRANSISTOR 2SC1623	
Q020	8-729-100-66	TRANSISTOR 2SC1623	
Q021	8-729-100-66	TRANSISTOR 2SC1623	
Q022	8-729-216-22	TRANSISTOR 2SA1162	
Q023	8-729-100-66	TRANSISTOR 2SC1623	
Q102	8-729-900-53	TRANSISTOR DTC114EK	

RESISTOR

Ref.No	Part No.	Description	Remark
R001	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R002	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R003	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R004	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R005	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R006	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R007	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R008	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R009	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R010	1-216-084-00	METAL GLAZE 30K 5% 1/10W	
R011	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R012	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R013	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R014	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R015	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R016	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R017	1-216-052-00	METAL GLAZE 1.3K 5% 1/10W	
R018	1-216-036-00	METAL GLAZE 300 5% 1/10W	
R019	1-216-068-00	METAL GLAZE 6.2K 5% 1/10W	
R020	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R021	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R022	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R023	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R024	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R025	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R026	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R027	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R028	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R029	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R030	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R031	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R032	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R033	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R034	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R035	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R036	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R037	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R038	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R039	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R040	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R041	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R042	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R043	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	

YC-59 **CG-10**

Ref.No	Part No.	Description			Remark
R044	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R045	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R046	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R047	1-216-039-00	METAL GLAZE	390	5%	1/10W
R048	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R049	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R051	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R052	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R055	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R059	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R060	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R061	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R062	1-216-039-00	METAL GLAZE	390	5%	1/10W
R063	1-216-043-00	METAL GLAZE	560	5%	1/10W
R064	1-216-031-00	METAL GLAZE	180	5%	1/10W
R065	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R066	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R067	1-216-043-00	METAL GLAZE	560	5%	1/10W
R069	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R070	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R071	1-216-052-00	METAL GLAZE	1.3K	5%	1/10W
R072	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R073	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R074	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R075	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R076	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R082	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R083	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R084	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R085	1-216-043-00	METAL GLAZE	560	5%	1/10W
R086	1-216-025-00	METAL GLAZE	100	5%	1/10W
R088	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R089	1-216-041-00	METAL GLAZE	470	5%	1/10W
R098	1-216-072-00	METAL GLAZE	9.1K	5%	1/10W
R102	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R103	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W

VARIABLE RESISTOR

Ref.No	Part No.	Description
RV001	1-230-494-11	RES, ADJ, CARBON 1K
RV002	1-238-166-11	RES, ADJ, CARBON 1K
RV003	1-230-523-11	RES, ADJ, CARBON 10K
RV004	1-237-723-11	RES, ADJ, CARBON 4.7K
RV005	1-237-723-11	RES, ADJ, CARBON 4.7K
RV006	1-238-166-11	RES, ADJ, CARBON 1K
RV007	1-238-166-11	RES, ADJ, CARBON 1K

CRYSTAL

Ref.No	Part No.	Description
X001	1-577-380-11	VIBRATOR, CRYSTAL

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*A-6727-190-A CG-10 BOARD, COMPLETE (Ref. No. 1000 Series)
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CAPACITOR

Ref.No	Part No.	Description			Remark
C685	1-124-446-11	ELECT	47MF	20%	10V
C686	1-162-306-11	CERAMIC	0.01MF	20%	16V
C687	1-102-980-00	CERAMIC	270PF	5%	50V
C688	1-102-980-00	CERAMIC	270PF	5%	50V
C689	1-164-083-11	CERAMIC	680PF	10%	50V
C690	1-161-494-00	CERAMIC	0.022MF		25V
C691	1-124-791-11	ELECT	1MF	20%	50V
C692	1-162-306-11	CERAMIC	0.01MF	20%	16V
C693	1-162-291-31	CERAMIC	560PF	10%	50V
C801	1-161-061-11	CERAMIC	0.068MF	10%	25V
C802	1-124-287-00	ELECT	10MF	20%	10V
C851	1-102-963-00	CERAMIC	33PF	5%	50V
C852	1-102-963-00	CERAMIC	33PF	5%	50V
C853	1-162-306-11	CERAMIC	0.01MF	20%	16V
C854	1-126-176-11	ELECT	220MF	20%	10V
C855	1-162-199-31	CERAMIC	10PF	5%	50V
C856	1-162-199-31	CERAMIC	10PF	5%	50V
C857	1-162-203-31	CERAMIC	15PF	5%	50V
C858	1-162-203-31	CERAMIC	15PF	5%	50V
C863	1-124-791-11	ELECT	1MF	20%	50V
C864	1-162-217-31	CERAMIC	56PF	5%	50V
C865	1-162-306-11	CERAMIC	0.01MF	20%	16V
C866	1-162-306-11	CERAMIC	0.01MF	20%	16V
C868	1-162-306-11	CERAMIC	0.01MF	20%	16V
C876	1-162-306-11	CERAMIC	0.01MF	20%	16V
C890	1-162-306-11	CERAMIC	0.01MF	20%	16V
C895	1-124-446-11	ELECT	47MF	20%	10V

When indicating parts by reference number, please include the board name.

CONNECTOR

Ref.No	Part No.	Description
CN585	1-568-073-11	CONNECTOR (RECEPTALE) 8P
CN586	1-568-073-11	CONNECTOR (RECEPTALE) 8P

DIODE

Ref.No	Part No.	Description
D851	8-719-911-19	DIODE 1SS119
D852	8-719-911-19	DIODE 1SS119
D853	8-719-911-19	DIODE 1SS119

IC

Ref.No	Part No.	Description
IC685	8-759-996-03	IC LVA519S
IC851	8-759-634-22	IC M50554-182SP

COIL

Ref.No	Part No.	Description	
L851	1-410-521-11	INDUCTOR	100UH
L852	1-408-424-00	INDUCTOR	180UH
L853	1-408-424-00	INDUCTOR	180UH
L856	1-410-511-11	INDUCTOR	15UH
L861	1-410-521-11	INDUCTOR	100UH
L862	1-410-521-11	INDUCTOR	100UH

TRANSISTOR

Ref.No	Part No.	Description
Q801	8-729-900-61	TRANSISTOR DTA114ES
Q802	8-729-900-80	TRANSISTOR DTC114ES
Q803	8-729-900-89	TRANSISTOR DTC144ES
Q804	8-729-900-65	TRANSISTOR DTA144ES
Q853	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA
Q856	8-729-423-44	TRANSISTOR 2SA1309A-QR
Q857	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA

RESISTOR

Ref.No	Part No.	Description			Remark
R685	1-249-429-11	CARBON	10K	5%	1/4W
R686	1-249-429-11	CARBON	10K	5%	1/4W
R687	1-249-422-11	CARBON	2.7K	5%	1/4W
R688	1-249-434-11	CARBON	27K	5%	1/4W
R689	1-249-430-11	CARBON	12K	5%	1/4W
R690	1-247-903-00	CARBON	1M	5%	1/4W
R691	1-249-414-11	CARBON	560	5%	1/4W
R801	1-249-425-11	CARBON	4.7K	5%	1/4W
R802	1-249-437-11	CARBON	47K	5%	1/4W
R803	1-249-425-11	CARBON	4.7K	5%	1/4W
R804	1-249-441-11	CARBON	100K	5%	1/4W
R851	1-249-423-11	CARBON	3.3K	5%	1/4W
R852	1-249-424-11	CARBON	3.9K	5%	1/4W
R855	1-249-421-11	CARBON	2.2K	5%	1/4W
R856	1-249-414-11	CARBON	560	5%	1/4W

Ref.No	Part No.	Description			Remark
R857	1-249-422-11	CARBON	2.7K	5%	1/4W
R858	1-249-429-11	CARBON	10K	5%	1/4W
R859	1-249-423-11	CARBON	3.3K	5%	1/4W
R860	1-249-424-11	CARBON	3.9K	5%	1/4W
R866	1-249-413-11	CARBON	470	5%	1/4W
R867	1-249-415-11	CARBON	680	5%	1/4W
R868	1-249-424-11	CARBON	3.9K	5%	1/4W
R870	1-249-413-11	CARBON	470	5%	1/4W
R873	1-249-416-11	CARBON	820	5%	1/4W
R877	1-249-435-11	CARBON	33K	5%	1/4W
R878	1-249-425-11	CARBON	4.7K	5%	1/4W
R879	1-249-413-11	CARBON	470	5%	1/4W
R888	1-249-433-11	CARBON	22K	5%	1/4W
R890	1-249-441-11	CARBON	100K	5%	1/4W

VARIABLE RESISTOR

Ref.No	Part No.	Description
RV685	1-238-015-11	RES, ADJ, CARBON 4.7K

CRYSTAL

Ref.No	Part No.	Description
X851	1-577-381-11	VIBRATOR, CRYSTAL (14.32MHz)

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*A-6727-101-A RP-63 BOARD, COMPLETE (SLV-575 UC)
* * * * * * * * * * * * * * * * * (Ref. No. 2000 Series)

*A-6727-195-A RP-63 BOARD, COMPLETE (SLV-676 UC)
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CAPACITOR

Ref.No	Part No.	Description			Remark
C101	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C102	1-124-242-00	ELECT	33MF	20%	16V
C103	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C104	1-124-438-00	ELECT	1MF	20%	50V
C106	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C107	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C108	1-124-455-00	ELECT	100MF	20%	16V
C109	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C110	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C111	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C112	1-126-157-11	ELECT	10MF	20%	16V
C113	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C114	1-124-438-00	ELECT	1MF	20%	50V
C115	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C116	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C117	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C118	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C119	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C120	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C121	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C122	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C123	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C801	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C802	1-126-154-11	ELECT	47MF	20%	6.3V
C803	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C804	1-124-464-11	ELECT	0.22MF	20%	50V
C805	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C806	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C807	1-124-464-11	ELECT	0.22MF	20%	50V
C808	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C809	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C810	1-124-464-11	ELECT	0.22MF	20%	50V
C813	1-124-464-11	ELECT	0.22MF	20%	50V
C814	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C815	1-163-101-00	CERAMIC CHIP	22PF	5%	50V

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description			Remark
C816	1-124-438-00	ELECT	1MF	20%	50V
C817	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C818	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C819	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C820	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C821	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C822	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C823	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C824	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C825	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C826	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C827	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C828	1-126-154-11	ELECT	47MF	20%	6.3V
C829	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C831	1-126-154-11	ELECT	47MF	20%	6.3V
C832	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C833	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C834	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C835	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C836	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C838	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C850	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V (SLV-676 UC)
C851	1-163-120-00	CERAMIC CHIP	130PF	5%	50V (SLV-676 UC)
C852	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (SLV-676 UC)
C853	1-163-121-00	CERAMIC CHIP	150PF	5%	50V (SLV-676 UC)
C854	1-163-109-00	CERAMIC CHIP	47PF	5%	50V (SLV-676 UC)
C855	1-163-038-00	CERAMIC CHIP	0.1MF		25V (SLV-676 UC)
C856	1-126-157-11	ELECT	10MF	20%	16V (SLV-676 UC)
C857	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C858	1-163-038-00	CERAMIC CHIP	0.1MF		25V

CONNECTOR

Ref.No	Part No.	Description
CN101	1-506-487-11	PIN, CONNECTOR 8P
CN801	1-565-759-11	CONNECTOR, BOARD TO BOARD 13P
CN802	1-506-490-21	PIN, CONNECTOR 11P
CN803	1-506-486-11	PIN, CONNECTOR 7P
CN804	*1-564-031-00	PIN, CONNECTOR 6P

DIODE

Ref.No	Part No.	Description
D102	8-719-400-18	DIODE MA152WK
D801	8-719-400-18	DIODE MA152WK
D802	8-719-400-18	DIODE MA152WK
D803	8-719-400-18	DIODE MA152WK

IC

Ref.No	Part No.	Description
IC101	8-759-320-55	IC HA12115MP
IC801	8-759-320-52	IC HA118019NT

COIL

Ref.No	Part No.	Description	
L101	1-407-169-XX	INDUCTOR	100UH
L102	1-407-169-XX	INDUCTOR	100UH
L801	1-407-169-XX	INDUCTOR	100UH
L802	1-408-975-21	INDUCTOR	27UH
L803	1-408-970-21	INDUCTOR	10UH
L804	1-408-985-21	INDUCTOR	180UH
L805	1-407-169-XX	INDUCTOR	100UH
L806	1-407-169-XX	INDUCTOR	100UH
L807	1-408-979-21	INDUCTOR	56UH
L808	1-408-973-21	INDUCTOR	18UH
L809	1-408-976-21	INDUCTOR	33UH

RP-63 TK-11 SH-10 VI-91 MD-49

Ref.No	Part No.	Description				Remark
L850	1-408-972-21	INDUCTOR	15UH			(SLV-676 UC)
L851	1-407-169-XX	INDUCTOR	100UH			(SLV-676 UC)

TRANSISTOR

Ref.No	Part No.	Description	Remark
Q101	8-729-216-22	TRANSISTOR 2SA1162	
Q801	8-729-216-22	TRANSISTOR 2SA1162	
Q802	8-729-901-78	TRANSISTOR 2SC2412K-R	
Q803	8-729-901-78	TRANSISTOR 2SC2412K-R	
Q804	8-729-901-01	TRANSISTOR DTC144EK	
Q805	8-729-901-01	TRANSISTOR DTC144EK	
Q806	8-729-901-01	TRANSISTOR DTC144EK	
Q850	8-729-101-07	TRANSISTOR 2SB798-DL	
Q851	8-729-901-01	TRANSISTOR DTC144EK	
Q852	8-729-216-22	TRANSISTOR 2SA1162	(SLV-676 UC)
Q853	8-729-216-22	TRANSISTOR 2SA1162	(SLV-676 UC)
Q854	8-729-901-01	TRANSISTOR DTC144EK	(SLV-676 UC)

RESISTOR

Ref.No	Part No.	Description				Remark
R101	1-216-019-00	METAL GLAZE	56	5%	1/10W	
R102	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R104	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R105	1-216-304-11	METAL GLAZE	3.3	5%	1/10W	
R106	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R107	1-216-304-11	METAL GLAZE	3.3	5%	1/10W	
R108	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R110	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R111	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R120	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R124	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R140	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R801	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R802	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R803	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R804	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R805	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R806	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R807	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R808	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R809	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R810	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R811	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R812	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R813	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R814	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R815	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R816	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R817	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R818	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R819	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R820	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R821	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R822	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R823	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R824	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R826	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R827	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R828	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R829	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R830	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R831	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R832	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R833	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R850	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R851	1-216-043-00	METAL GLAZE	560	5%	1/10W	(SLV-676 UC)
R852	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(SLV-676 UC)
R853	1-216-047-00	METAL GLAZE	820	5%	1/10W	(SLV-676 UC)
R854	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(SLV-676 UC)
R855	1-216-093-00	METAL GLAZE	68K	5%	1/10W	(SLV-676 UC)
R856	1-216-748-11	METAL GLAZE	39K	5%	1/10W	(SLV-676 UC)
R857	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	(SLV-676 UC)

When indicating parts by reference number, please include the board name.

SWITCH

Ref.No	Part No.	Description	Remark
S801	1-570-856-11	SWITCH, SLIDE	(SLV-575 UC)

* * *

***1-634-952-11 TK-11 BOARD (Ref. No. 6000 Series)**

****

CONNECTOR

Ref.No	Part No.	Description
CN601	1-563-612-21	CONNECTOR, FLEXIBLE 9P
CN602	1-569-671-11	CONNECTOR, BOARD TO BOARD 10P

* * *

***1-634-953-11 SH-10 BOARD (Ref. No. 6000 Series)**

****

CONNECTOR

Ref.No	Part No.	Description
CN901	1-569-673-11	CONNECTOR, BOARD TO BOARD 12P

SWITCH

Ref.No	Part No.	Description
S901	1-572-361-11	SWITCH, ROTARY (SHUTTLE SW)

* * *

***1-634-956-11 VI-91 BOARD (Ref. No. 1000 Series)**

****

CONNECTOR

Ref.No	Part No.	Description
CN201	1-563-599-11	CONNECTOR, FLEXIBLE 22P
CN204	*1-506-744-11	PIN, CONNECTOR 15P
CN205	*1-506-744-11	PIN, CONNECTOR 15P
CN206	1-506-490-21	PIN, CONNECTOR 11P

* * *

***A-6754-066-A MD-49 BOARD, COMPLETE (Ref. No. 2000 Series)**

****

Ref.No	Part No.	Description
	*3-736-144-01	HOLDER, LED
	3-736-149-01	HOLDER, ST SENSOR

CAPACITOR

Ref.No	Part No.	Description			
C001	1-161-494-00	CERAMIC	0.022MF		25V
C002	1-161-494-00	CERAMIC	0.022MF		25V
C003	1-126-157-11	ELECT	10MF	20%	16V
C004	1-161-379-00	CERAMIC	0.01MF	30%	16V
C005	1-126-157-11	ELECT	10MF	20%	16V
C006	1-124-589-11	ELECT	47MF	20%	10V
C008	1-164-159-11	CERAMIC	0.1MF		50V
C009	1-164-159-11	CERAMIC	0.1MF		50V
C011	1-162-849-11	CERAMIC	0.068MF	10%	16V
C012	1-162-849-11	CERAMIC	0.068MF	10%	16V

Ref.No	Part No.	Description				Remark
C013	1-162-849-11	CERAMIC	0.068MF	10%	16V	
C014	1-126-160-11	ELECT	1MF	20%	50V	
C016	1-124-589-11	ELECT	47MF	20%	16V	
C017	1-126-162-11	ELECT	3.3MF	20%	25V	
C018	1-124-589-11	ELECT	47MF	20%	16V	
C019	1-124-589-11	ELECT	47MF	20%	16V	
C020	1-164-159-11	CERAMIC	0.1MF		50V	

CONNECTOR

Ref.No	Part No.	Description
CN001	1-506-494-11	PIN, CONNECTOR 15P
CN002	1-569-335-11	CONNECTOR, BOARD TO BOARD 9P
CN003	1-569-334-11	CONNECTOR, BOARD TO BOARD 5P
CN004	1-563-622-21	CONNECTOR, FLEXIBLE 19P
CN005	*1-506-482-11	PIN, CONNECTOR 3P
CN006	1-569-333-11	CONNECTOR, BOARD TO BOARD 3P
CN007	1-563-622-21	CONNECTOR, FLEXIBLE 19P
CN008	*1-506-482-11	PIN, CONNECTOR 3P

DIODE

Ref.No	Part No.	Description
D001	8-719-974-65	DIODE GL451V (LED)
D002	8-719-109-93	DIODE RD6.2ESB2
D003	8-719-109-93	DIODE RD6.2ESB2
D004	8-719-109-93	DIODE RD6.2ESB2
D005	8-719-109-93	DIODE RD6.2ESB2

IC

Ref.No	Part No.	Description
IC002	8-759-938-12	IC BA10324
IC004	⚠8-759-234-03	IC TA8424F

PHOTOSENSOR

Ref.No	Part No.	Description
PH001	8-759-144-33	PHOTO SENSOR PS6002
PH002	8-759-144-33	PHOTO SENSOR PS6002

TRANSISTOR

Ref.No	Part No.	Description
Q001	8-729-921-53	PHOTO TRANSISTOR PT483F1
Q002	8-729-921-53	PHOTO TRANSISTOR PT483F1

RESISTOR

Ref.No	Part No.	Description				Remark
R001	1-249-423-11	CARBON	3.3K	5%	1/4W	
R002	1-249-423-11	CARBON	3.3K	5%	1/4W	
R003	1-249-426-11	CARBON	5.6K	5%	1/4W	
R004	1-249-426-11	CARBON	5.6K	5%	1/4W	
R005	1-249-415-11	CARBON	680	5%	1/4W	
R006	1-249-441-11	CARBON	100K	5%	1/4W	
R007	1-249-441-11	CARBON	100K	5%	1/4W	
R008	1-249-425-11	CARBON	4.7K	5%	1/4W	
R009	1-249-409-11	CARBON	220	5%	1/4W	
R010	1-249-425-11	CARBON	4.7K	5%	1/4W	
R011	1-249-437-11	CARBON	47K	5%	1/4W	
R012	1-249-421-11	CARBON	2.2K	5%	1/4W	
R013	1-249-429-11	CARBON	10K	5%	1/4W	
R014	1-249-426-11	CARBON	5.6K	5%	1/4W	
R015	1-249-437-11	CARBON	47K	5%	1/4W	
R016	1-249-421-11	CARBON	2.2K	5%	1/4W	
R019	⚠1-249-377-11	CARBON	0.47	5%	1/4W	F
R020	1-249-406-11	CARBON	120	5%	1/4W	
R021	1-249-383-11	CARBON	1.5	5%	1/4W	
R022	1-249-408-11	CARBON	180	5%	1/4W	
R023	1-249-414-11	CARBON	560	5%	1/4W	
R024	1-249-417-11	CARBON	1K	5%	1/4W	
R025	1-247-891-00	CARBON	330K	5%	1/4W	
R027	1-249-383-11	CARBON	1.5	5%	1/4W	
R028	1-249-383-11	CARBON	1.5	5%	1/4W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark

SWITCH

Ref.No	Part No.	Description
S001	1-570-953-11	SWITCH, PUSH (1 KEY) (CASSETTE IN)
S002	1-570-953-11	SWITCH, PUSH (1 KEY) (REC PROOF)

* *

*1-635-225-11 SI-10 BOARD (Ref. No. 3000 Series) (SLV-676 UC)

* * * * * * * * *

CAPASITOR

Ref.No	Part No.	Description			
C847	1-162-306-11	CERAMIC	0.01MF	20%	16V
C848	1-162-306-11	CERAMIC	0.01MF	20%	16V

CONNECTOR

Ref.No	Part No.	Description
CN801	1-569-761-11	CONNECTOR BOARD TO BOARD 20P

IC

Ref.No	Part No.	Description
IC810	8-759-602-49	IC M5201P
IC811	8-759-923-90	IC BA4560
IC812	8-759-040-70	IC MC14070BCP

RESISTOR

Ref.No	Part No.	Description			
R860	1-249-435-11	CARBON	33K	5%	1/4W
R861	1-249-435-11	CARBON	33K	5%	1/4W
R862	1-249-432-11	CARBON	18K	5%	1/4W

* *

MISCELLANEOUS

* * * * * * * * * * *

Ref.No	Part No.	Description
M901	8-848-515-11	DRUM ASSY DZH-11B (SLV-676 UC)
M901	8-848-518-01	DRUM ASSY DZH-14B (SLV-575 UC)
M902	8-835-394-01	MOTOR, DC U-26F (CAPSTAN)
M903	X-3733-302-1	MOTOR ASSY, CAM
M904	X-3727-784-1	MOTOR ASSY (LOADING)
S1	⚠1-571-920-11	SWITCH, ROTARY
	⚠1-413-532-11	SWITCHING BLOCK (POWER BLOCK)
	1-466-164-11	MODULATOR,RF(RFU-1015)
	1-537-290-11	TERMINAL BOARD (SLV-575 UC)
	1-537-290-21	TERMINAL BOARD (SLV-676 UC)
	1-543-647-11	HEAD, FE
	1-558-924-41	CABLE, PIN
	1-575-745-11	WIRE, FLAT TYPE (19 CORE)
	1-575-746-11	WIRE, FLAT TYPE (22 CORE)
	A-6761-129-A	HEAD BLOCK ASSY, ACE

ACCESSORIES AND PACKING MATERIALS

* *

Part No.	Description
1-417-139-11	MATCHING TRANSFORMER, ANTENNA
1-465-473-11	REMOTE COMMANDER (RMT-V 575A)
1-465-474-11	REMOTE COMMANDER (RMT-V 676A)
1-558-076-41	CORD, CONNECTION
1-575-334-11	CORD, CONNECTION
	MANUAL, INSTRUCTION (SLV-575 UC)
	MANUAL, INSTRUCTION (SLV-676 UC)
*3-738-213-01	CASE, ACCESSORY
*3-743-684-01	CUSHION, UPPER
*3-743-685-01	CUSHION, LOWER
*3-743-687-01	INDIVIDUAL CARTON (SLV-575 UC)
*3-743-687-11	INDIVIDUAL CARTON (SLV-676 UC)

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remark
	HARDWARE LIST * * * * * * * * * * *		
		SET-SCT.	
	7-621-732-08	SET-SCT,HEX. 2X3 FLAT POINT	
		RING	
	7-624-102-04	STOP RING 1.5, TYPE -E	
		SCREW, PRECISION	
	7-627-552-08	SCREW,PRECISION +P 1.7X2.5	
		SCREW	
	7-628-254-00	SCREW +PS 2.6X5	
	7-682-548-04	SCREW +P 3X8	
	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT	
	7-685-648-79	SCREW +P 3X12 TYPE2 NON-SLIT	
	7-685-233-19	SCREW +KTP 2.6X6 TYPE2 SLIT	
	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
	7-621-255-25	SCREW +PTT 2X4 (S)	
	7-682-547-04	SCREW +BVTT 3X6 (S)	

SECTION 7
ELECTRICAL ADJUSTMENT

Refer to the "VHS MECHANICAL ADJUSTMENTS MANUAL II " for MECHANICAL ADJUSTMENTS.

During the Adjustments, See the Parts Arrangement Diagram for the Adjustments on Page 114 — 115.

Necessary items and indications for total adjustment of electric circuit of this machine will be described in this chapter.

[Using Instruments]

1) Color TV
2) Oscilloscope 1 or 2 phenomera, band 15MHz min, delay mode, as provided.
3) Frequency counter (min. 8 digits)
4) NTSC pattern generator
5) Digital voltmeter
6) Audio level meter
7) Audio generator
8) Attenuator
9) Distortion factor meter
10) Audio multiplex signal generator
11) Alignment tape
    Part Code: H7099046H (MH-1)
    H7099153H (HiFi 400Hz)

[Connection]

Unless otherwise specified, connect and adjust the measuring instruments as shown in the following diagram.

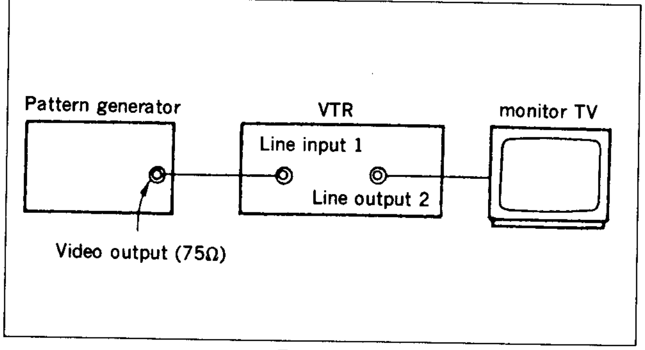

Pattern generator
VTR
monitor TV
Line input 1
Line output 2
Video output (75Ω)

Fig. 7-1.

[Set-up Adjustment]

In this adjustment, NTSC pattern generator is connected with VHF antenna terminal and used as RF input signal. Which is processed through the tuner and IF circuit in VTR.

[Alignment Tape (MH-1)]

	Mode	Time	Video signal	Audio signal
1	SP	10 minutes	Stair-step	7 kHz
2		5 minutes	—	3 kHz
3		10 minutes	Color bar	1 kHz
4		3 minutes	RF sweep	—

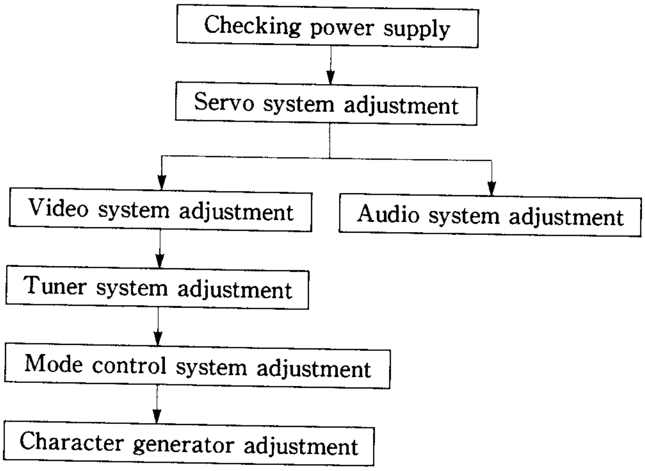
[Standard input/output level and impedance]

Input/output terminal

LINE IN 1 and 2	VIDEO IN (phono jack) Input signal: 1Vp-p, 75 ohms, unbalanced, sync negative AUDIO IN (phono jack) Input level: −10 dBs (0 dBs= 0.775Vrms) Input impedance: more than 47 kilohms
LINE OUT	VIDEO OUT (phono jack) Output signal: 1Vp-p, 75 ohms, unbalanced, sync negative AUDIO OUT (phono jack) Standard output: −10 dBs at load impedance 47 kilohms Output impedance: less than 10 kilohms
MONITOR OUT	VIDEO OUT (phono jack) Output signal: 1Vp-p, 75 ohms, unbalanced, sync negative AUDIO OUT (phono jack) Standard output: −10dBs at load impedance 47 kilohms Output impedance: less than 10 kilohms

[Adjusting Sequence]

Make the electrical adjustment in the following sequence.


Checking power supply
Servo system adjustment
Video system adjustment
Audio system adjustment
Tuner system adjustment
Mode control system adjustment
Character generator adjustment

7-1. POWER SUPPLY ADJUSTMENT

7-1-1. Power Supply Adjustment (Power Block)

Mode	E-E
Measurement equipment	Digital voltmeter
MTR 12V adjustment	
Measurement point	CN412 pin ⑨
Adjustment resistor	R203 (0 to 1kΩ) R204 (0 to 1kΩ)
Specified value	12.0±0.1Vdc
SWD 5V adjustment	
Measurement point	CN411 pin ③
Adjustment resistor	R208 (100 to 680Ω)
Specified value	$5.3\ ^{+0.15}_{-0.1}$ Vdc
UN 5.8V adjustment	
Measurement point	CN411 pin ①
Adjustment resistor	R212 (1 to 2.2kΩ) R213 (1 to 2.2kΩ)
Specified value	5.8±0.15Vdc

[Adjustment Method]

1) Confirm that each voltage satisfies its specified value.
2) If not met, adjust to specified value with adjustment resistor.

7-1-2. Power Supply Check (Power Block)

Mode	E-E
Measurement equipment	Digital voltmeter
SWD 12V check	
Measurement point	CN411 pin ⑪
Specified value	12.0±0.3Vdc
UN 35V check	
Measurement point	CN411 pin ⑨
Specified value	37±3Vdc
UN −30V check	
Measurement point	CN412 pin ③
Specified value	−29.0±2.5Vdc
Heater 3.2V check	
Measurement point	Between CN412 pin ④ and ⑤
Specified value	3.2±0.3Vdc
SWD −6V check	
Measurement point	CN411 pin ⑧
Specified value	−6.0±0.5Vdc

[Checking Method]

1) Confirm that each voltage satisfies its specified value.

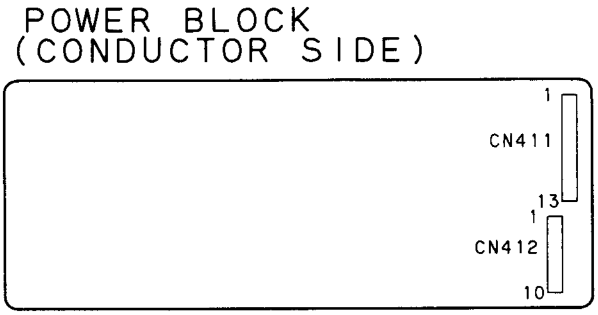


Fig. 7-2.

7-2. SERVO SYSTEM ADJUSTMENT

7-2-1. Switching Position Adjustment 2 (MA-62 Board)

Mode	PB
Signal	Alignment tape SP stair-step
Measurement point	CH1 : CN562 pin ④ CH2 : CN582 pin ⑫ (RF SWP)
Measurement equipment	Oscilloscope
Adjustment element	RV501
Specified value	6.5±0.5H (410±30μsec)

[Adjustment Method]

1) Adjust to 6.5 ±0.5H (410±30μ sec) with RV501.

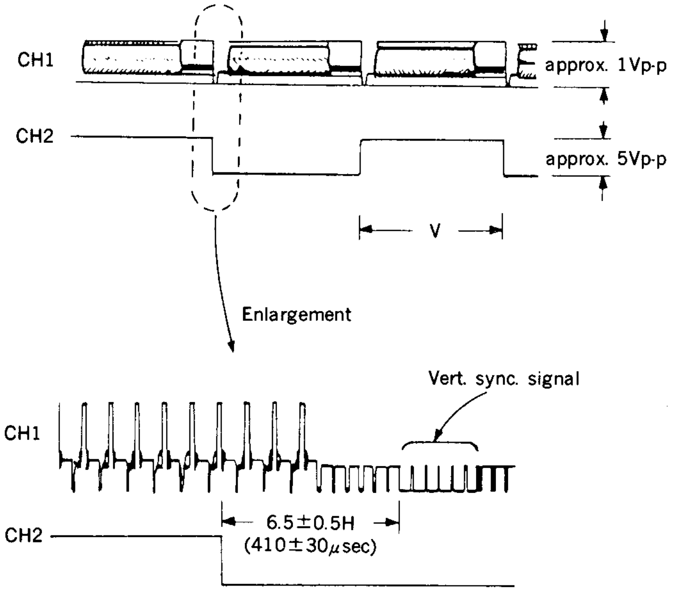


Fig. 7-3.

7-3. VIDEO SYSTEM ADJUSTMENT

Adjust the video system in the following sequence as a rule. The color video signal supplied from the pattern generator is used as a video input signal for video system adjustment in the recording mode.

Make sure that sync. and color burst signals meet requirements specified at set up of adjustment shown in Fig. 7-1.

[Adjustment Sequence]

7-3-1. Recording Y Signal Level Adjustment
7-3-2. Sync. AGC Adjustment
7-3-3. Sync. Tip Carrier Set and Deviation Adjustment
7-3-4. White Clip, Dark Clip Check
7-3-5. Playback Y Signal Level Adjustment
7-3-6. Recording Chroma Level Adjustment
7-3-7. CCD Level Adjustment
7-3-8. X'tal Oscillation Frequency Check

7-3-1. Recording Y Signal Level Adjustment (YC-59 Board/RP-63 Board)

Mode	REC
Signal	None
Measurement point	CN804 pin ③ (RP-63 board)
Measurement equipment	Oscilloscope
Adjustment element	RV001 (YC-59 board)
Specified value	1.8±0.1Vp-p

[Adjustment Method]

1) Adjust to 1.8±0.5Vp-p with RV001.

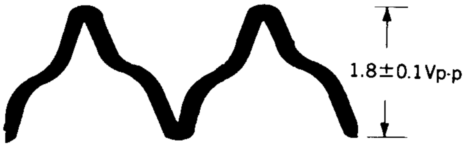


Fig. 7-4.

7-3-2. Sync. AGC Adjustment (YC-59 Board)

Mode	E-E
Signal	Color bar
Measurement point	VIDEO OUT terminal
Measurement equipment	Oscilloscope
Adjustment element	RV002
Specified value	1.00±0.05Vp-p

[Adjustment Method]

1) Adjust to 1.00±0.05Vp-p with RV002.

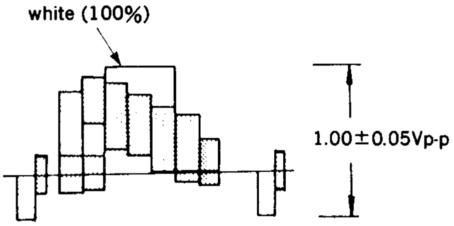


Fig. 7-5.

7-3-3. Sync. Tip Carrier Set and Deviation Adjustment (YC-59 Board)

Before starting this adjustment, be sure to check that playback Y signal level adjustment has been completed.

Sync tip carrier set	
Mode	E-E
Signal	None (Note 2)
Measurement point	IC001 pin ㉚
Measurement equipment	Frequency counter
Adjustment element	RV004
Specified value	3.45±0.05MHz
Deviation adjustment	
Mode	REC and PB
Signal	Color bar
Measurement point	VIDEO OUT terminal
Measurement equipment	Oscilloscope
Adjustment element	RV003
Specified value	1.00±0.05Vp-p

Note 1 : Video output terminal must be teminated at 75Ω.

Note 2 : To make no signal input, insert a shorting plug into a video input terminal.

[Adjustment Method]

1) Input the color bar signal to place the system in the E-E mode.
2) Make a no-signal state and select the E-E mode. (Note 2)
3) Connect the frequency counter to the IC001 pin ㉚ and adjust to 3.45±0.05MHz with RV004.
4) Input the color bar signal to make recording.
5) Play back a recorded tape portion and check the playback Y signal level of VIDEO OUT terminal.
   Specified value: 1.00±0.05Vp-p.
6) When the specified value is not met, input the color bar signal to select the E-E mode. Adjust RV003 to correct a play back Y signal level error, and then, repeat the steps 2) through 5) above.

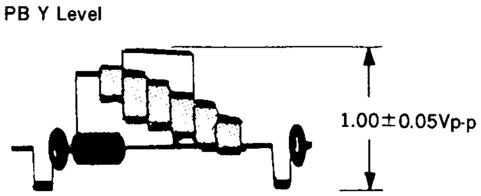


Fig. 7-6. Deviation adjustment

7-3-4. White Clip, Dark Clip Check (YC-59 Board)

Mode	E-E
Signal	Color bar
Measurement point	IC001 pin ②
Measurement equipment	Oscilloscope
Specified value	White clip : 190±10% Dark clip : 40±10%

[Adjustment Method]

1) Confirm the white clip level to 190±10% of the white level (100%).
2) Confirm the dark clip level to 40 ±10% of the white level (100%).

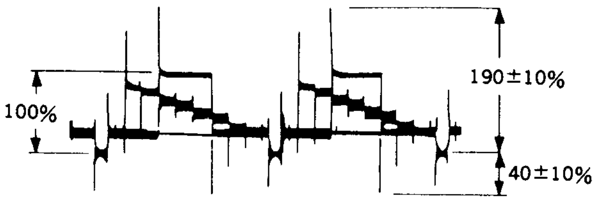


Fig. 7-7.

7-3-5. Playback Y Signal Level Adjustment (YC-59 Board)

Mode	PB
Signal	Alignment tape SP color bar
Measurement point	VIDEO OUT terminal
Measurement equipment	Oscilloscope
Adjustment element	RV005

Note : Make this adjustment with the EDIT switch turned off.

[Adjustment Method]

1) Adjust to 1.00±0.05Vp-p with RV005.

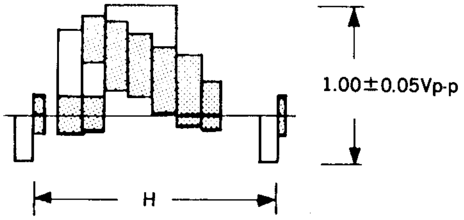


Fig. 7-8.

7-3-6. Recording Chroma Level Adjustment (YC-59 Board)

Mode	E-E
Signal	Color bar
Measurement point	CN002 pin ⑧
Measurement equipment	Oscilloscope
Adjustment element	RV007
Specified value	130±10mVp-p

[Adjustment Method]

1) Adjust to 130±10mVp-p with RV007.

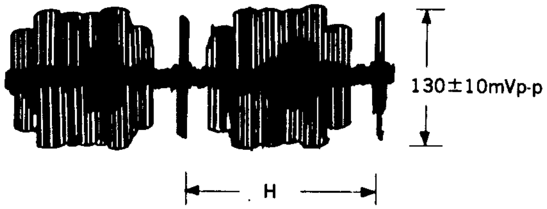


Fig. 7-9.

7-3-7. CCD Level Adjustment (YC-59 Board)

Mode	PB
Signal	Alignment tape SP color bar
Measurement point	IC001 pin ⑨ and ⑩ (INV mode) ADD
Measurement equipment	Oscilloscope
Adjustment element	RV006
Specified value	Minimum (within 150mVp-p)

[Adjustment Method]

1) Adjust the level to the minimum (within 150mVp-p) with RV006.

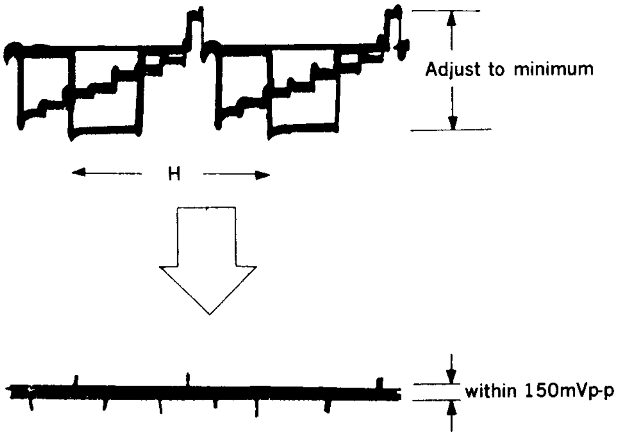


Fig. 7-10.

7-3-8. X'tal Oscillation Frequency Check (YC-59 Board)

Mode	PB
Signal	Alignment tape SP color bar
Measurement point	IC002 pin⑲
Measurement equipment	Frequency counter, Oscilloscope
Specified value	3,579,545±50Hz

Note : Connect the frequency counter through a probe of high input impedance (about 10MΩ) and low capacity (10pF or less).

[Adjustment Method]

1) Confirm 3,579,545±50Hz.
2) At the same time confirm the level is 240±100mVp-p.

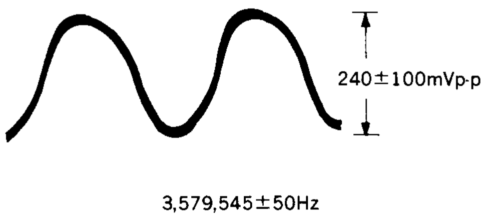


Fig. 7-11.

7-4. AUDIO SYSTEM ADJUSTMENT

- Adjust the audio system in the SP mode, unless otherwise specified.
  Use the alignment tape.
- Adjust both LCH and RCH.

[Connection]

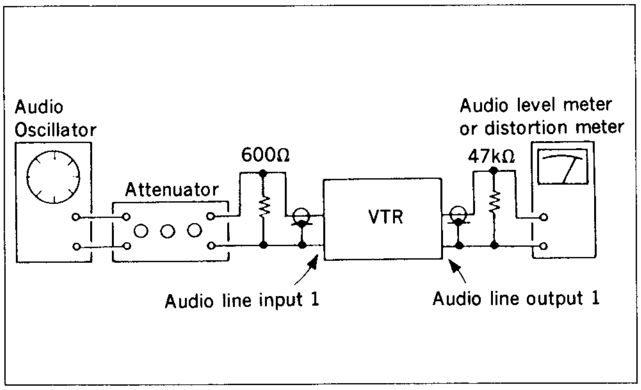


Fig. 7-12.

7-4-1. Hi-Fi Audio System Adjustment

Set switches and knobs to the following positions to make adjustment. unless otherwise specified.

INPUT SELECT switch ...... LINE 1
MPX FILTER switch .... OFF
REC LEVEL knob .... Adjust to −21dBs on CN001 pins ① and ② of HF-9 board.

[Adjustment Sequence]

1. **VCO fo Adjustment**
2. **AFM Deviation Adjustment**
3. **Carrier Frequency Check**
4. **Switching Pulse Position**
5. **PB RF Level Adjustment**
6. **PB Level Adjustment**

1. VCO fo Adjustment (HF-9 Board)

Mode	REC
Signal	None
Measurement equipment	Frequency counter
1.3MHz Adjustment	
Measurement point	IC002 pin ③
Adjustment element	RV008
Specified Value	1,300±2kHz
1.7MHz Adjustment	
Measurement point	IC002 pin ㉚
Adjustment element	RV002
Specified Value	1,700±2kHz

Note : Connect the frequency counter through a probe of high input impedance (about 10MΩ) and low capacity (10pF or less).

[Adjustment Method]

1) Adjust with RV002 and RV008 so that each frequency becomes its specified value.

2. AFM Deviation Adjustment (HF-9 Board)

Mode	REC
Signal	Standard input
Measurement point	IC002 pin ③ (L ch) IC002 pin ㉚ (R ch)
Measurement equipment	Frequency counter
Adjustment element	RV009 (L ch) RV003 (R ch)
Specified value	50.0±0.1kHz (both channels)

[Adjustment Method]

1) Adjust with RV009 (Lch) and RV003 (Rch) so that the frequency on IC002 pin ③ (Lch) or pin ㉚ (Rch) becomes its specified value.

3. Carrier Frequency Check (HF-9 Board)

Mode	Make JW030+5Vdc
Measurement Equipment	Frequency counter
1.3MHz Check	
Measurement point	IC002 pin ③
Specified Value	1.3MHz±2kHz
1.7MHz Check	
Measurement point	IC002 pin ㉚
Specified Value	1.7MHz±2kHz

Note: Connect the frequency counter through a probe of high input impedance (about 10MΩ) and low capacity (10pF or less).

[Checking Method]

1) Confirem the frequency on each position becomes its specified value.

4. Switching pulse position Adjustment (HF-9 Board)

Mode	PB
Signal	HiFi recorded tape
Measurement point	CN571 pin ⑨ and ⑮ (MA-62 board)
Measurement equipment	Oscilloscope
Adjustment element	RV006
Specified value	Fig. 7-13.

[Adjustment Method]

1) Adjust with RV006 so that the RF doesn't drop out at the switching position.

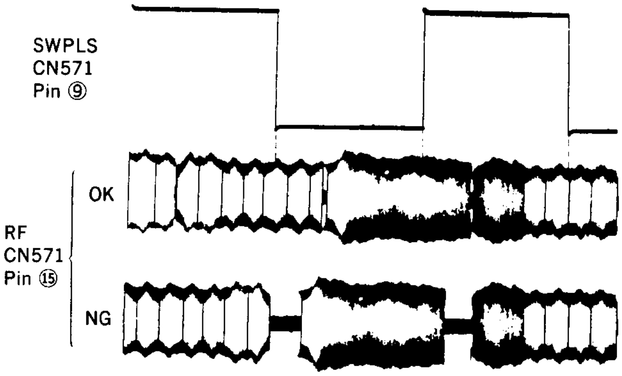


Fig. 7-13.

5. PB RF Level Adjustment (HF-9 Board)

Mode	PB
Signal	Carrier Frequency : 1.3MHz, not modulated −22dBs signal to CN002 pin ③ and ④, 333Hz, −8dBs signal to CN001 pin ⑧.
Measurement point	IC002 pin ⑪ CN001 pin ④ and ⑤
Measurement equipment	Digital volt meter Audio level meter
Adjustment element	RV005

[Adjustment Method]

1) Adjust with RV005 so that the voltage on IC002 pin ⑪ becomes low (0Vdc) and next it becomes high (3.3Vdc or more.)
2) When IC002 pin ⑪ becomes high, confirm the 333Hz, −8dBs signal is out from CN001 pins ④ and ⑤.

6. PB Level Adjustment (HF-9 Board)

Mode	PB
Signal	Alignment tape (HiFi 400Hz)
Measurement point	LINE OUT (Lch, Rch)
Measurement equipment	Audio level meter
Adjustment element	RV007 (Lch) RV004 (Rch)
Specified value	−7.5±0.1dBs

[Adjustment Method]

1) Adjust with RV007 (Lch) and RV004 (Rch) so that the reading on audio level meter becomes its specified value.

7-4-2. Normal Audio System Adjustment

- Make adjustment in the SP mode, unless otherwise specified.
  Use a normal VHS cassette for an adjustment tape.
- Make adjustment with the switches set to the following positions:
  INPUT SELECT .... LINE 1
  AUDIO MONITOR .... NORMAL

[Adjustment Sequence]

1. **ACE Head Adjustment....See "VHS MECHANICAL ADJUSTMENT MANUAL** II"
2. **E-E Output Level Check**
3. **Recording Bias Adjustment**
4. **Overall Level Characteristic and Distortion Factor Check**
5. **Overall S/N Check**

1. ACE Head Adjustment

See "VHS MECHANICAL ADJUSTMENT MANUAL II".

2. E-E Output Level Check

Mode	E-E
Signal	L, R: 400Hz, −7.5dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter
Specified value	−7.5±2dBs

[Confirmation Method]

1) Simultaneously input a signal of 400Hz, −7.5dBs to both L and R channels of Audio Line Input.
2) Confirm that the audio output level is −7.5±2dBs.

3. Recording Bias Adjustment (MA-62 Board)

Mode	REC and PB
Signal	400Hz, −30dBs 7kHz, −30dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter
Measurement element	RV251
Specified value	0±1dB

[Adjustment Method]

1) Supply a signal of 400Hz, −30dBs to Audio Line Input.
2) Connect the audio level meter to the Audio Line Output.
3) Adjust the attenuator so that the audio level meter will indicate −30dBs.
4) Make recording in the SP mode.
5) Set an audio line input signal to 7kHz and make recording.
6) Play back a recorded portion, and measure output levels at 400Hz and 7kHz.
7) Confirm that the 7kHz playback output level is within a range of the 400Hz playback output level 0±1dB. When it is out of this range, adjust RV251 and repeat the steps 1) through 7) above.

4. Overall Level Characteristic and Distortion Factor Check

Mode	REC and PB
Signal	400Hz, −7.5dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter and distortion factor meter
Specified value	Playback level: −7.5±2dBs Distortion factor: 4% or less

[Confirmation Method]

1) Supply an audio signal of 400Hz, −7.5dBs simultaneously to both L and R channels of Audio Line Input.
2) Make recording.
3) Play back a recorded portion.
4) Confirm that a playback level is −7.5±2dBs.
5) Confirm that a distortion factor is within 4%.

5. Overal S/N Check

Mode	REC and PB
Signal	400Hz, −7.5dBs, and no signal
Measurement point	Audio output terminal
Measurement equipment	Audio level meter
Specified value	38dB or more

[Confirmation Method]

1) Supply a signal of 400Hz simultaneously to both L and R channels of Audio Line Input. Adjust the attenuator so that the L channel audio line output level will be −7.5dBs.
2) Make recording.
3) With the REC mode held, make the no-signal state. (Short an input for both L and R.)
4) Play back a recorded portion, and confirm that there is a level difference of 38dB or more between 400Hz portion and no-signal portion (immediately after a 400Hz signal).

7-5. TUNER SYSTEM ADJUSTMENT

7-5-1. RF AGC Adjustment (IF001 Unit/TU-120 Board)

Signal	Broadcast TV signal
Adjustment element	VR of IF001 unit (Fig. 7-14.)

[Adjustment Method]

1) Adjustment the monitor TV to maximum contrast.
2) Turn the VR to make snow noise visible.
3) Turn the VR in an opposite direction and set it to the point where the snow noise disappears.
4) Receive each channel and confirm that there are no beat picture corruption snow noise due to cross modulation.

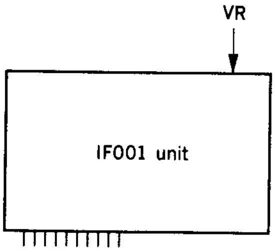


Fig. 7-14.

7-5-2. Separation Adjustment (TU-120 Board)

Signal	Stereo Lch : 400Hz, 100%, modulation Rch : 2kHz, 100%, modulation
Connection point	Audio line output : L and R channels
Measurement point	Oscilloscope
Adjustment element	RV001, RV3 (MPX001), RV4 (MPX001)

[Setting of the switches]

REC LEVEL MF-92 board
RV104 (Rch) }
RV103 (Lch) } Center click

[Adjustment Method]

1) Set the audio multiplex signal generator in the Stereo mode, and set L CH to 400Hz, 100% modulation, and set R CH to 2kHz, 100% modulation.
2) Connect the oscilloscope to pin ⑨ of CN002.
3) Minimize the distortion of the output waveform of 2kHz with RV001. (Minimize the 400Hz component.)
4) Connect the oscilloscope to pin ⑧ of CN002.
5) Minimize the distortion of the output waveform of 400Hz with RV3 (internal of MPX001). (Minimize the 2kHz component.)
6) Connect the oscilloscope to pin ⑨ of CN002.
7) Minimize the distortion of the output waveform of 2kHz with RV4 (internal of MPX001). (Minimize the 400Hz component.)
8) Repeat the procedures 4) to 7) and perform the adjustment.

Note : From this to 7-7-8, setting should be performed on the horizontal condition.

7-5-3. Band Pass Filter fo Check (TU-120 Board)

Signal	Monaural, stereo and dual sound
Measurement point	CN001 pins ⑤ and ⑥
Measurement equipment	Digital voltmeter
Specified value	Table 7-1.

[Confirmation Method]

1) Set the sound multiplex signal generator in the Dual Sound, Stereo and Monaural modes.
2) Confirm that the CN001 pins ⑤ and ⑥ meet their specified values.

Table 7-1.

	CN001 pin ⑤	CN001 pin ⑥
Monaural	H	H
Stereo	H	L
Dual sound	L	H

L : 0.5V DC or less
H : 3.5V DC or more

7-6. MODE CONTROL SYSTEM ADJUSTMENT

7-6-1. Clock Adjustment (MF-93 Board)

Measurement point	IC201 pin ⑧
Measurement equipment	Interval counter
Adjustment element	CV201
Specified value	0.125±0.0000005sec

[Adjustment Method]

1) Pass a 9-state binary counter through pin ⑧ of IC201, to divide the 4096Hz frequency nine times and transform to 8Hz, Measure the cycle.
2) Adjust CV201 so that an 8Hz cycle equals 0.125± 0.0000005 seconds.

Note : Do not adjust CV201 except when replacing microcomputers.

9 Stage Binary Counter Reference

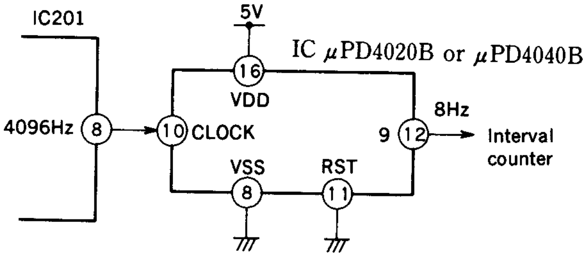


Fig. 7-15.

7-6-2. Level Meter Adjustment (MF-93 Board)

〈　〉: Rch

Mode	E-E
Signal	400Hz, −7.5dBs
Input point	CN202 pin ⑫ 〈pin ⑪〉
Adjustment element	RV201 〈RV202〉
Adjusting value	Level meter 0dBs segment lighting up

[Setting of the Switches]

INPUT SELECT : LINE 1 or 2

REC LEVEL control (MF-92 board RV103 〈104〉): Center click

[Adjustment Method]

1) Put 400Hz, −7.5dBs signal to CN202 pin ⑫ 〈pin ⑪〉.
2) Adjust with RV201 〈RV202〉 so that the level meter 0dB segment light up.

7-7. CHARACTER GENERATOR ADJUSTMENT

7-7-1. Clock Oscillation Frequency Check (CG-10 Board)

Mode	E-E
Signal	None
Measurement point	IC851 pin ㉘
Measurement equipment	Frequency counter
Specified value	14,318,180±100Hz

Note 1 : Connect a 10kΩ resistor to the frequency counter.

Note 2 : Connect the frequency counter through a prove of high input impedance (about 10MΩ) and low capacity (10pF or less).

[Checking Method]

1) Confirm that the frequency is 14,318,180±100Hz.

7-7-2. AFC Frequency Adjustment (CG-10 Board)

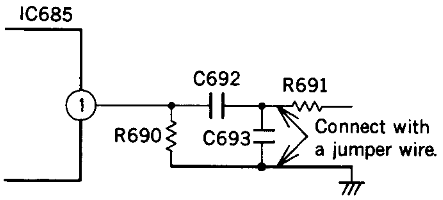
Mode	E-E
Signal	None
Measurement point	IC685 pin ⑧
Measurement equipment	Frequency counter
Adjustment element	RV685
Specified value	15,734±50Hz

Note 1 : Connect a 10kΩ resistor to the frequency counter.

Note 2 : Connect the frequency counter through a prove of high input impedance (about 10MΩ) and low capacity (10pF or less).

[Adjustment Method]

1) Connect with a jumper wire between not side of C693 and GND.



2) Adjust to 15,734±50Hz with RV685.

7-7-3. Character Position Check (CG-10 Board)

Mode	E-E
Signal	Color bar
Measurement point	IC851 pin ⑤
Measurement equipment	Frequency counter
Specified value	7.6±0.3MHz

Note 1 : Connect a 10kΩ resistor to the frequency counter.

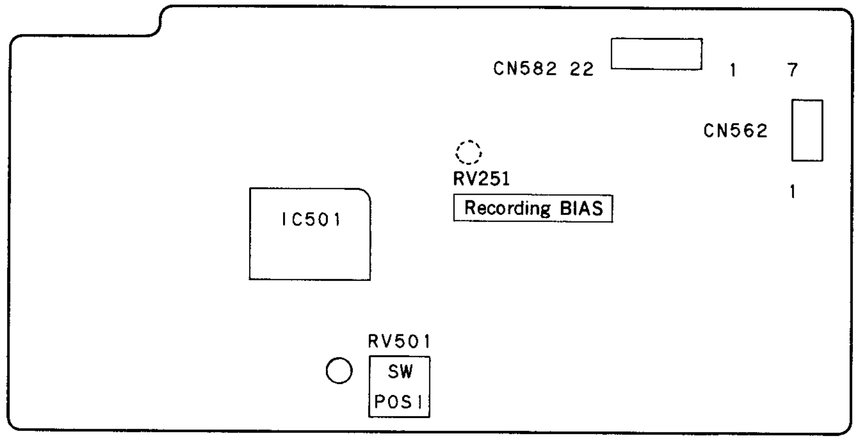
Note 2 : Connect the frequency counter through a prove of high input impedance (about 10MΩ) and low capacity (10pF or less).

[Checking Method]

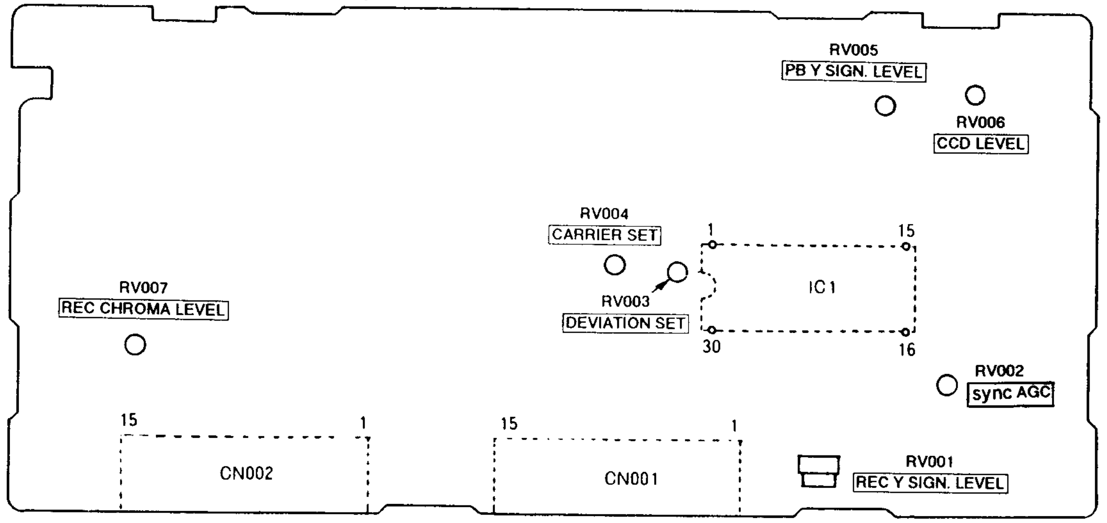
1) Confirm that the frequency is 7.6±0.3MHz.

7-8. PARTS ARRANGEMENT DIAGRAM FOR THE ADJUSTMENT

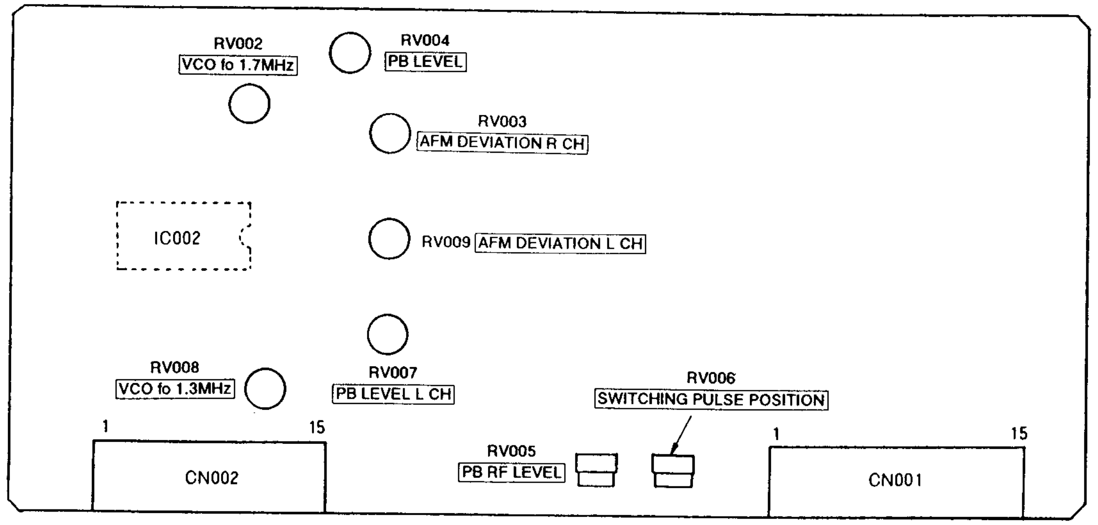
MA-62 BOARD (CONDUCTOR SIDE)


CN582 22
1
7
CN562
1
RV251
Recording BIAS
IC501
RV501
SW
POSI

YC-59 Board (Conductor Side)

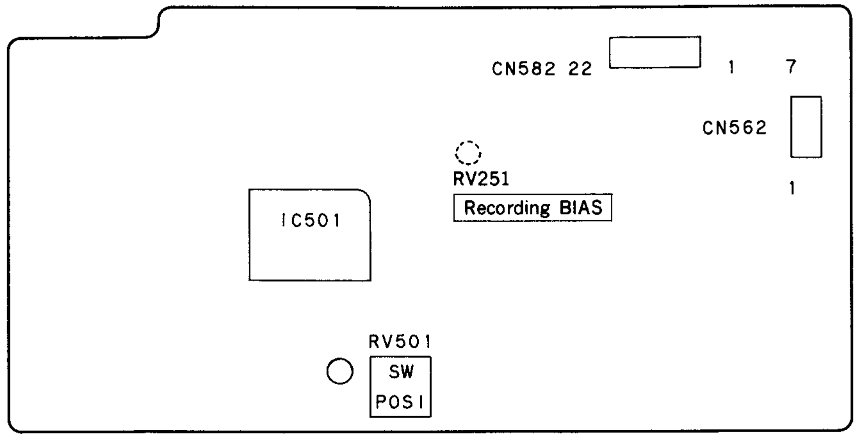

RV005
PB Y SIGN. LEVEL
RV006
CCD LEVEL
RV004
CARRIER SET
1
15
IC1
RV003
DEVIATION SET
30
16
RV007
REC CHROMA LEVEL
RV002
sync AGC
15
1
CN002
15
1
CN001
RV001
REC Y SIGN. LEVEL

HF-9 BOARD (Component Side)

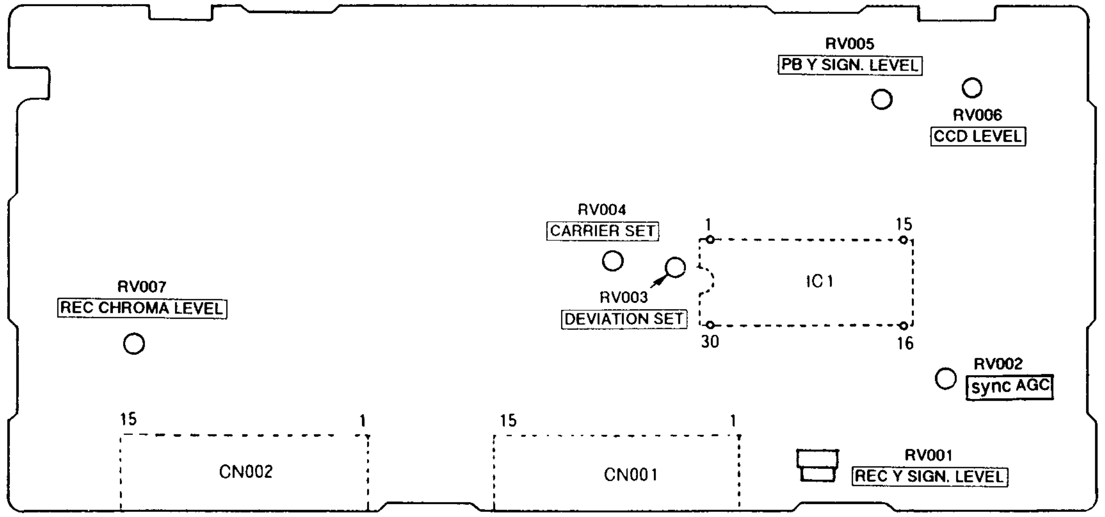

RV002
VCO fo 1.7MHz
RV004
PB LEVEL
RV003
AFM DEVIATION R CH
IC002
RV009 AFM DEVIATION L CH
RV008
VCO fo 1.3MHz
RV007
PB LEVEL L CH
RV006
SWITCHING PULSE POSITION
1
15
CN002
RV005
PB RF LEVEL
1
15
CN001

7-8. PARTS ARRANGEMENT DIAGRAM FOR THE ADJUSTMENT

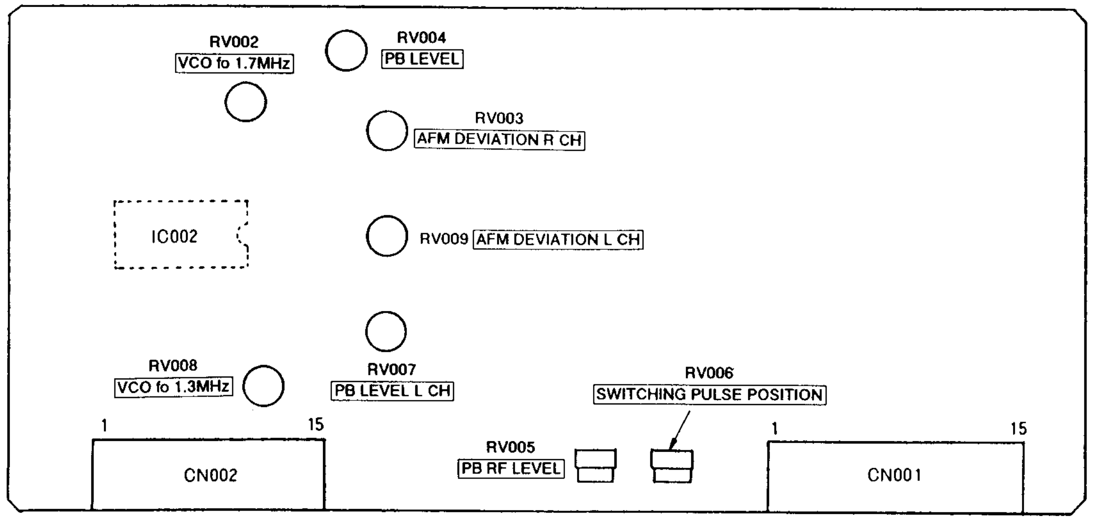
MA-62 BOARD (CONDUCTOR SIDE)


CN582 22
1
7
CN562
1
RV251
Recording BIAS
IC501
RV501
SW POSI

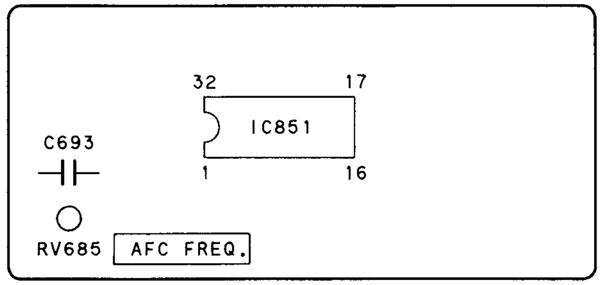
YC-59 Board (Conductor Side)


RV005
PB Y SIGN. LEVEL
RV006
CCD LEVEL
RV004
CARRIER SET
1
15
IC1
RV003
DEVIATION SET
30
16
RV007
REC CHROMA LEVEL
RV002
sync AGC
15
1
CN002
15
1
CN001
RV001
REC Y SIGN. LEVEL

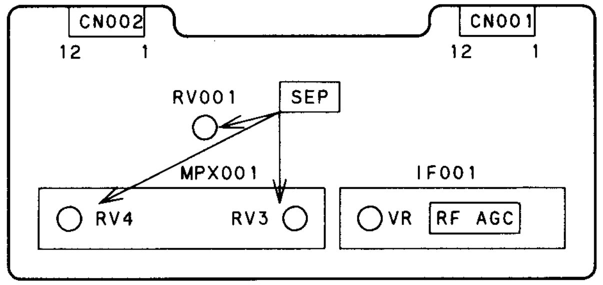
HF-9 BOARD (Component Side)


RV002
VCO fo 1.7MHz
RV004
PB LEVEL
RV003
AFM DEVIATION R CH
IC002
RV009
AFM DEVIATION L CH
RV008
VCO fo 1.3MHz
RV007
PB LEVEL L CH
RV006
SWITCHING PULSE POSITION
1
15
CN002
RV005
PB RF LEVEL
1
15
CN001

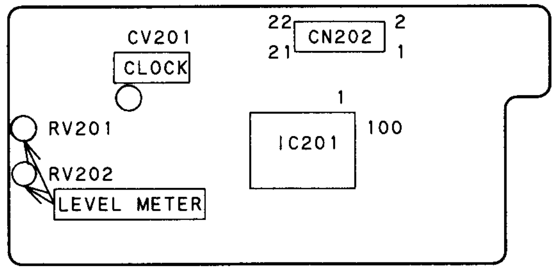
CG-10 BOARD (COMPONENT SIDE)


32
17
IC851
C693
1
16
RV685
AFC FREQ.

TU-120 BOARD (COMPONENT SIDE)


CN002
12
1
CN001
12
1
RV001
SEP
MPX001
IF001
RV4
RV3
VR
RF AGC

MF-93 BOARD (CONDUCTOR SIDE)


CV201
CLOCK
22
21
CN202
2
1
1
100
IC201
RV201
RV202
LEVEL METER